EXHIBIT B

Page 1

IN THE UNITED STATES DISTRICT COURT

FOR THE SOUTHERN DISTRICT OF WEST VIRGINIA

CHARLESTON DIVISION

IN RE: ETHICON, INC., PELVIC
REPAIR SYSTEM PRODUCTS
PRODUCTS LIABILITY LITIGATION
THIS DOCUMENT RELATES TO THE
FOLLOWING CASES IN WAVE 2
OF MDL 200:

Tamara Carter, et al. v.
Ethicon, Inc., et al.
Civil Action No. 2:12-cv-01661

Sandra Childress, et al. v.)
Ethicon, Inc., et al.)
Civil Action No. 2:12-cv-01564)

Marion Chrysler v. Ethicon, Inc., et al. Civil Action No. 2:12-cv-02060

Melissa Sanders, et al. v. Ethicon, Inc., et al. Civil Action No. 2:12-cv-01562

Ana Sierra, et al. v.)
Ethicon, Inc., et al.)
Civil Action No. 2:12-cv-01819)

Toni Hernandez v.)
Ethicon, Inc., et al.)
Civil Action No. 2:12-cv-02073)

Reported by:

Rebecca J. Callow, CSR, RPR, CRR

Master File No. 2:12-MD-02327 MDL 2327

) JOSEPH R. GOODWIN)) U.S. DISTRICT JUDGE

) PAUL J. MICHAELS, M.D.)
) JUNE 18, 2016

Golkow Technologies, Inc. - 1.877.370.DEPS

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1		1	APPEARANCES:
2	DEPOSITION OF PAUL J. MICHAELS, M.D.	2	ATTERRANCES.
3	THIS DOCUMENT RELATES TO GENERAL TESTIMONY	3	FOR JOHNSON & JOHNSON AND ETHICON, INC.:
4	Austin, Texas	4	Thomas Combs & Spann PLLC
5	Saturday, June 18th, 2016	5	300 Summers Street
6	8:04 a.m.	6	Suite 1380
7		7	Charleston, West Virginia 25301
8		8	(304) 414-1807
9	Deposition of PAUL J. MICHAELS, M.D, pursuant to	9	BY: David B. Thomas, Esquire
10	Notice held at the offices of Hissey Kientz,	10	dthomas@tcspllc.com
11	9442 N. Capital of Texas Highway Building 1,	11	
12	First Floor Conference Room, Austin, Texas, before	12	FOR JOHNSON & JOHNSON AND ETHICON, INC.:
13	Rebecca J. Callow, Registered Merit Reporter,	13	Butler Snow, LLP
14	Certified Realtime Reporter, Registered	14	150 3rd Avenue South
15	Professional Reporter, and Notary Public in and	15	Suite 1600
16	for the State of Texas.	16	Nashville Tennessee 37201
17		17	(615) 651-6700
18		18	BY: M. Andrew Snowden, Esquire
19		19	andy.snowden@butlersnow.com
20		20	
21		21	
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2 (Pages 2 to 5)

Page 8 Page 6 (Witness sworn.) 1 MR. THOMAS: Okay. And is that all 1 2 MR. AYLSTOCK: Before we get started, 2 the information that you produced pursuant to the 3 Dave, I guess, I know there were some e-mails flying 3 notice of deposition? 4 4 back and forth. To the extent that Dr. Michaels was MR. CURTIS: It's all that I produced. 5 withdrawn as a general expert, he's -- by my e-mails 5 I think that there are other materials that have 6 for cases where he's designated, our understanding 6 also been produced, but that's an explanation of why 7 7 is that he will be designated both as case-specific Dr. Michaels did not bring materials in paper copy and generic in those and we're permitting you to 8 8 this morning. 9 take a generic general deposition of Dr. Michaels 9 MR. THOMAS: Thank you. pursuant to the notices that you provided. 10 A. I have a flash drive that has my CV and all 10 MR. THOMAS: Thank you. 11 11 the representative information that was included in 12 PAUL J. MICHAELS, M.D., Schedule A of this notice of deposition. 12 13 Called as a witness herein, having been 13 BY MR. THOMAS: 14 previously duly sworn by a Notary Public, was 14 O. Can I have that flash drive? examined and testified as follows: 15 15 A. Yes. 16 **EXAMINATION** 16 (Exhibit 2 marked.) 17 BY MR. THOMAS: 17 MR. THOMAS: I've marked as Q. Good morning, Doctor. Exhibit No. 2 the flash drive that Dr. Michaels just 18 18 19 A. Good morning. 19 gave me. 20 Q. I introduced myself to you before the 20 BY MR. THOMAS: 21 deposition. My name is David Thomas and I represent 21 Q. Without going into great detail, unless you can, is there anything on the Schedule A that you 22 Ethicon. 22 23 You've given depositions before? 23 did not produce? 24 24 MR. AYLSTOCK: Just again to A. Yes. Page 7 Page 9 reiterate, we objected to form to a large portion of 1 (Exhibit 1 marked.) 2 2 BY MR. THOMAS: it --3 Q. Let me show you what I've marked as 3 MR. THOMAS: I understand. I don't Deposition Exhibit No. 1. It's a notice of 4 want to spend my time going through each one of them 5 5 deposition for you in six cases in the pelvic mesh to figure it out. 6 6 MDL. MR. AYLSTOCK: That's fine. 7 7 Have you seen that notice of deposition BY MR. THOMAS: 8 8 before? Q. And if there's something that you know of that you didn't produce, tell me. Otherwise, we'll 9 9 A. Yes. 10 Q. Did you bring anything with you in response 10 get to it later. 11 to Schedule A attached to the notice? 11 A. Not that I'm exactly aware of. 12 12 Q. Okay. And that's fine. We'll figure that MR. CURTIS: Doctor, before you answer, for the record, we filed written 13 out, perhaps, as we go along. 13 Would you state your full name for the 14 objections -- e-filed written objections to the 14 15 documents listed in the attachment to the notice for 15 record, please? A. Paul Joseph Michaels. his deposition in all of these cases. I didn't 16 16 bring written objections to be made an exhibit, 17 Q. And, Dr. Michaels, you are a medical 17 18 Mr. Thomas, but I wanted the record to include that. 18 doctor? 19 A. Yes. 19 And also, we provided, by electronic link, the documents that were on the reliance list 20 Q. And what is your area of specialty? 20 21 for each of the cases to include the medical 2.1 A. Pathology. Specifically atomic and 22 records, the deposition transcripts, and other clinical pathology with a subspecialty in 22 23 cytopathology. materials provided the doctor. So you have those in 24 Q. Have you been identified as an expert 24 that form.

3 (Pages 6 to 9)

Page 10 Page 12 more light to you off the record, yes, I would tell witness in the Ethicon Pelvic Repair System Products 2 Liability Litigation? him not to answer that question. 3 MR. THOMAS: Okay. Again, I don't 3 A. Yes. 4 want to spend time discussing stuff. That's going 4 Q. And you're here to testify on behalf of the 5 5 to waste my time or we're not going to get any plaintiffs? 6 A. Yes. 6 answers. 7 7 O. In six cases. BY MR. THOMAS: 8 8 Who contacted you about this Q. Prior to your retention in this case, can 9 litigation? 9 you tell me something about your familiarity with pelvic mesh implants? 10 A. I don't remember exactly the order of how I 10 11 A. Well, as a pathologist, I've been exposed 11 was contacted, but I believe it was Mr. Aylstock's 12 to these specimens over the last several years. So 12 13 13 I've grossly examined them, microscopically examined Q. Okay. And what were you asked to do? 14 A. I was asked to serve as an expert with 14 them, prior to being involved in this litigation, 15 15 and that was basically it. regards to the pathologic evaluation of the mesh Q. Has that been in your capacity as a 16 specimens in these clients that had brought this 16 17 lawsuit. 17 pathologist associated with the hospital? 18 Q. The notice of deposition lists six cases in 18 A. That's correct. which you're prepared to give opinions in this MDL. 19 Q. And how many pelvic mesh explants have you 19 Did you review other cases? 20 as a pathologist analyzed prior to your retention in 20 21 A. Yes. 21 this litigation? 22 22 Q. How many other cases did you review? A. I would probably say somewhere around two 23 A. One or two. 23 dozen, maybe. 24 Q. Okay. And did you decline to give opinions 24 Q. Over what period of time? Page 11 Page 13 in those cases? 1 A. Seven, eight years, maybe. 2 A. No. 2 Q. Do you recall any time where you as a 3 3 pathologist have been asked to analyze pelvic mesh One of them I did give an opinion. I 4 just -- it's not on here. I think it's for later. implants to determine the extent to which the mesh 5 5 And then the other one I was told kind contributed to the pathology in the tissue that you 6 6 of halfway through that I shouldn't work on the analyzed? 7 7 case anymore. I don't know what was happening to A. Could you repeat that? 8 8 it, if they were withdrawing or settling. I didn't MR. THOMAS: Could you? ask. I was just told on this case -- and I don't 9 (The record was read as requested: 9 10 10 even remember the name -- don't work anymore on it. "Do you recall any time where you as a Q. Do you know the names of the plaintiffs in pathologist have been asked to analyze 11 11 pelvic mesh implants to determine the 12 those two cases? 12 MR. AYLSTOCK: And with regard to 13 extent to which the mesh contributed 13 that, I'm going to object to the extent that he may 14 to the pathology in the tissue that 14 have been a consulting expert on those cases, you're 15 you analyzed?") 15 not entitled to know the names of those cases until 16 A. Well, I would say that as a pathologist, 16 17 the time -- such time as he's been disclosed as an 17 that's what you do on a day-to-day basis. Whether 18 18 you're specifically asked by the submitting surgeon, expert in those. 19 MR. THOMAS: I can't know that, Bryan. 19 a particular clinical question, that's what we do is 20 20 Are you instructing him not to answer or what? I analyze specimens and report their pathological 21 significance. 21 don't know. 22 22 MR. AYLSTOCK: With regard -- one of So I would say that -- yes, that's 23 those cases is not mine, so for that, without his part of my purview as a pathologist just with lawyer here, who -- and I can probably shed some general specimens would be to answer those clinical

4 (Pages 10 to 13)

Page 14

questions, whether they're specifically asked or 2

3 BY MR. THOMAS:

4 Q. Prior to your retention in this litigation, 5 have you written pathology reports which expressed

6 opinions about the impact that the presence of

7 polypropylene mesh may have played in the pathology of the tissue that you reviewed? 8

9 A. Well, with regards to impact, I would say if you were talking about a foreign body response, 10 that is in relationship to the mesh, then yes. 11

12 Q. Anything other than commenting on the 13 foreign body response due to the presence of the 14 mesh?

15 A. Fibrosis, fat necrosis. Those are the main 16 things that we address in pathology reports with 17 regards to either mesh or any foreign-type material.

18 Q. Have you had any training prior to your 19 work in this litigation concerning the impact of polypropylene mesh in tissue? 20

21 A. I wouldn't say I've had any specific training with regards to the polypropylene mesh in 22

tissue and its reaction. But just as a general

pathologist, within our training we are, I guess,

Page 15

taught and schooled with respect to foreign bodies 2 in general.

3 Q. Have you ever authored any papers related to the impact of polypropylene mesh on tissue in the 5 pelvic floor?

6 A. No, I have not.

7 Q. Have you ever conducted any research 8 concerning the impact of polypropylene mesh on tissue in the pelvic floor? 9

10 A. No.

11 Q. Have you ever spoken or taught on the topic of the issue of the impact of polypropylene mesh on tissue in the pelvic floor? 13

14 A. No.

15 Q. When you were asked to assist the plaintiffs in this litigation, what did you do to 16 17 prepare yourself for the work that you were going to

18 do? 19 A. Well, I re-reviewed a lot of the general

pathology of inflammation and foreign body 20 granulomas reactions from several different 21

22 textbooks and, I guess, online pathology sources.

I reviewed a lot of the literature

24 that I came into contact with, either that was

provided to me or when I did my own PubMed search

Page 16

with regards to mesh, polypropylene, transvaginal

3 surgeries, et cetera, I came across a lot of

4 articles that way. I read a lot of articles in that 5

respect.

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I was -- I asked for and was given some of the internal Ethicon documents with respect to the litigation and their research on mesh.

And I reviewed some depositions from different physicians that had been involved in the litigation prior to me being asked to be in the

litigation, as well as some of their prior expert 12 reports to get a general overview of some of the 13

14 issues in the litigation. I would say those would 15 be the main things.

16 Q. What prior expert reports did you review?

17 A. Reports I think by physicians

Klausterhoften, Clinge, I believe, Iakovlev as well. 18

Q. Any other expert reports you recall 19 20 reviewing?

21 A. Well, not in the beginning, no.

22 (Exhibit 3 marked.)

23 BY MR. THOMAS:

24 Q. Let me show you what's Deposition Exhibit

Page 17

No. 3, which is your expert report in the Childress case. The expert report in the Childress case has a

3 heading, "Background," "Summary of Opinions," and "Comment." 4

5 I'm interested now in the Comment 6 section of Exhibit No. 3.

Does the Comment section in

8 Exhibit No. 3, which goes from pages 2 through 5,

9 does that generally represent your general report in

10 this case?

7

13

16

11 A. I would say that that generally represents my general opinions with regards to the case, yes. 12

Q. Okay. And without showing you the other 14 five reports, does -- can I use the Childress report as a template for your general opinions across all six cases?

17 A. I don't know about that, because I -- they 18 change -- I can't remember specifically, as I sit 19 here, but -- and without comparing all of the 20 reports to one another, there may be some

21 differences from one report to another to this 22 comment section.

23 O. Okay. 24

(Exhibit 4 marked.)

5 (Pages 14 to 17)

1 BY MR. THOMAS:

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Q. Let me show you what's been marked as Deposition Exhibit No. 4.

Deposition Exhibit No. 4 is Exhibit D that I was provided Thursday afternoon and represented to be your reliance list in connection with your opinions in this case.

- A. I don't think so, because this one says "Chrysler deposition" on page 5, and we're talking 10 about Childress.
- 11 Q. Well, the reason why I say that -- well, 12 this was given to me by plaintiffs on Thursday afternoon. 13

14 Other than the page 5, which are 15 individual medical records I think you said for the Chrysler case, do the first four pages of that 16 Exhibit No. 4 represent your reliance materials for 17

- your general opinions in the case? 18
- 19 A. I believe so, yes.
- 20 Q. And you said a minute ago that you obtained these materials from a variety of sources. 21

Do you know which of these literature 22 23 references you obtained on your own?

24 A. I couldn't go through them and pick them

Page 18 Page 20

> 1 A. Well, for general pathology, background information with regards to maybe some of the later

advancements with regards to inflammatory cytokines

and mechanisms that maybe were even more recent than 5 the most recent textbooks I have on the subject, but

6 not much in addition to that.

7 Q. And what did you search for specifically in 8 your Internet research?

9 A. Inflammation mechanisms, foreign body response, pathology foreign body response, 11 histology, biology, et cetera.

12 Q. You mentioned that you studied papers 13 related to the complications associated with mesh in 14 the pelvic floor.

Why was that important to you?

A. Because as part of my role as an expert, I am correlating the findings based on the literature with respect to histopathologic features that I'm finding in the mesh explants.

So if there are studies done with respect to correlating these findings, it was important to me, as a pathologist reviewing the mesh, to be able to identify those and correlate them with the individual case-specific opinions, I

Page 19

out.

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- 2 Q. Counsel supplied you selected literature?
- 3 A. Initially, yes.
- 4 Q. Are you able to identify from materials
- 5 that you have in your files those materials that counsel provided to you? 6
- 7 A. No. Because I put them all in one general 8 folder.
- 9 Q. And likewise, are you able to identify 10 those materials that you found on your own through your own PubMed search? 11
- 12 A. No.
- 13 Q. I believe you said you did some Internet 14 research.
- A. Well, with regards to general -- I mean, 15 16 PubMed is an Internet research, so yes, I did.
- 17 Q. Did you do any -- what did you search for 18 under PubMed?
- 19 A. Transvaginal mesh, you know, mesh pain,
- 20 mesh complications, a variety of different -- I 21 mean ...
- 22 Q. Other than your PubMed search on the
- Internet, did you conduct any other Internet

research?

1 guess.

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2 Q. In analyzing the complications associated 3 with the use of mesh in the pelvic floor, did you determine the rate of those complications in 5 surgeries?

A. From what I read, the rates seemed quite variable from study to study.

And it would depend on what you were specifically looking at and what was really considered a complication, because that seems to also have changed with respect to how, for example, 11 12 recurrence is classified.

- Q. To the extent that you studied the rates of complications occurring from mesh in the pelvic 15 floor, did you include those papers in your reliance list, which is Exhibit 4?
- A. I included everything in my reliance list 17 18 that I thought was pertinent to my opinions and that 19 I felt like seemed to be a pertinent study.
- Q. Are the rates of complications from the use 20 21 of mesh in the pelvic floor pertinent to your 22 opinions in the case?

23 MR. AYLSTOCK: Object to the form of 24 the question to the extent that you're talking about

6 (Pages 18 to 21)

Page 21

Page 22 Page 24 1 A. Oh, okay. Yes. 1 mesh generally. 2 THE WITNESS: Can you repeat that 2 Q. So you did seek to understand the 3 3 complications that occur for the treatment of question? 4 4 conditions in the pelvic floor that don't involve (The record was read as requested: 5 "Are the rates of complications from 5 mesh? 6 the use of mesh in the pelvic floor 6 A. Well, in many of the reports that I had, 7 7 pertinent to your opinions in the there were discussions regarding comparing the case?") 8 complications with mesh from complications of 8 9 A. I don't think necessarily. 9 surgeries that were similar prior to or without the BY MR. THOMAS: use of synthetic mesh. 10 10 11 Q. Why do you say you don't think necessarily? 11 Q. As a part of your work in this case, did A. Well, I'm just -- because these are all --12 12 you make a determination of whether complications I'm being involved in cases where the complication were greater or fewer in surgeries using mesh for 13 13 has occurred. So whether that occurs in 1 in 10,000 14 14 the treatment of stress urinary incontinence as 15 or 1 in 5, it doesn't matter. It occurred in this 15 opposed to procedures involving the 16 16 Burch colposuspension? case. 17 17 So, although it's something that is a A. Well, with respect to mesh versus non-mesh, background information with respect to how common 18 18 yes. 19 something is, I don't think in a particular case it 19 Q. And what did you learn from your work? 20 changes any opinion that I would render. 20 A. That the complications from surgeries with 21 Q. As a part of your work in this case, did 21 respect to using synthetic mesh were greater. you undertake to determine how complications which 22 Q. Is that for the treatment of stress urinary 22 result from the use of mesh in the pelvic floor 23 incontinence? occur? 24 24 A. Well, I would say, in general, with respect Page 25 Page 23 1 THE WITNESS: Could you repeat that? to organ prolapse and stress urinary incontinence, 2 2 Sorry. my understanding from reviewing the literature is 3 3 that the use of synthetic mesh resulted in an THE REPORTER: No problem. 4 (The record was read as requested: 4 increased number of complications with respect to 5 5 "As a part of your work in this case, those types of surgical procedures compared to 6 procedures where non-synthetic mesh was used. 6 did you undertake to determine how 7 7 complications which result from the Q. Okay. Specifically, did your review of the 8 8 use of mesh in the pelvic floor literature lead you to conclude that the risk of 9 9 occur?") complications in the use of mesh for the treatment 10 A. Yes. of stress urinary incontinence is greater than the 10 BY MR. THOMAS: 11 11 risk of complications from non-mesh procedures used Q. And how did you do that? 12 12 to treat stress urinary incontinence? A. By trying to read some of the literature 13 A. I would say my general opinion, as I sit 13 14 regarding the complications. 14 here now, from what I recall would be yes. But I 15 Q. And did you seek to understand the risk of don't have a lot of those studies in front of me to 15 complications in the pelvic floor from non-mesh look at their reported complication rates. 16 16 17 procedures? 17 Q. Do you remember which studies you used in 18 A. I don't know what non-mesh procedures 18 that regard? 19 19 you're talking about. A. With respect to the authors' names? 20 Q. Yes. Anything you can do to identify the 20 Q. Do you know what a Burch colposuspension 21 21 study so I can find it. is? 22 22 A. So you mean -- so you mean general A. I can go through my reliance list one by 23 23 treatment for prolapse, et cetera, that's not mesh? Q. Correct. 24 24 Q. I don't want to do that. I'm just asking

7 (Pages 22 to 25)

Page 26 Page 28 if you recall anything off the top of your head. 1 floor? 2 A. Well, for me to identify these number of 2 A. I would say that vaginal scarring is a 3 studies, I would have to go through them because I 3 potential risk. reviewed so much literature in preparation for --4 Q. And do you agree that infection is a 5 Q. I understand. 5 potential risk of non-mesh surgery in the pelvic 6 A. Okay. 6 floor? 7 7 Q. Do you agree that acute or chronic A. Yes. I would say that infection is a risk 8 8 dyspareunia is a risk of non-mesh surgery of the of basically any surgery regardless of where it's 9 pelvic floor? 9 10 10 MR. AYLSTOCK: Objection to form. Q. And do you agree that urinary problems, be 11 THE WITNESS: Could you repeat that? 11 it urinary frequency, urgency, dysuria, retention, (The record was read as requested: obstruction or incontinence, is a risk of non-mesh 12 12 "Do you agree that acute or chronic 13 surgery in the pelvic floor? 13 dyspareunia is a risk of non-mesh THE WITNESS: I'm sorry. Could you 14 14 15 surgery of the pelvic floor?") 15 repeat that? 16 A. I would say it can be, yes. 16 MR. AYLSTOCK: Objection. Form. 17 BY MR. THOMAS: 17 (The record was read as requested: "And do you agree that urinary 18 Q. Do you agree that acute or chronic pain is 18 problems, be it urinary frequency, 19 a risk of non-mesh surgery in the pelvic floor? 19 MR. AYLSTOCK: Objection to form. urgency, dysuria, retention, 20 20 21 A. Acute or chronic pain, in general, or ... 21 obstruction or incontinence, a risk of BY MR. THOMAS: 22 2.2 non-mesh surgery in the pelvic 23 Q. Yes. 23 floor?") 24 A. Like in your head? Pain can be anywhere, 24 MR. AYLSTOCK: Objection. Form. Page 27 Page 29 so I don't -- that seems like a nonspecific 1 A. I would agree that urinary problems can be question. I don't understand it. a potential risk of surgery in the pelvic floor. 2 3 Q. What I'm trying to understand is when a 3 BY MR. THOMAS: person has surgery in the pelvic floor for the 4 Q. Do you agree that organ or nerve damage are 5 5 treatment of stress urinary incontinence or pelvic potential risks of surgery in the pelvic floor? organ prolapse whether acute or chronic pain is a 6 6 MR. AYLSTOCK: Objection to form. 7 7 potential risk from that surgery. A. I would want to know what organs you're 8 A. You can repeat the question all you want. 8 talking about that would be dysfunctional. 9 9 But what I'm saying is, pain where? BY MR. THOMAS: 10 Pain can occur anywhere in your body, 10 Q. Are there risks of injury to any organs in so if you're going to ask me if pain is a pelvic floor surgery? 11 11 complication of something, I need to know if you're A. I would say organs that are in that 12 12 talking about pain in a particular location. 13 anatomic location. 13 14 Q. I'm sorry. I'll ask a better question. 14 Q. And the same with respect to nerves that 15 Do you agree that acute or chronic pain are in that anatomic location. 15 in the pelvic -- strike that. 16 16 A. Correct. Nerves that are in that anatomic 17 Do you agree that acute or chronic pain 17 location can potentially be injured during the 18 in the pelvic floor is a risk of non-mesh surgery for 18 surgery. the treatment of pelvic organ prolapse and stress 19 Q. Bleeding is a potential risk of non-mesh 19 urinary incontinence in the pelvic floor? surgery in the pelvic floor? 20 20 21 A. Yes. I would say pain in the pelvic floor 21 MR. AYLSTOCK: Objection to form. 22 22 A. Bleeding is a risk for any surgery can be a risk. 23 Q. Do you agree that vaginal scarring is a 23 regardless of location. 24 potential risk of non-mesh surgery in the pelvic 24 ///

8 (Pages 26 to 29)

1 2	Page 30		Page 32
	BY MR. THOMAS:	1	MR. AYLSTOCK: Objection to form.
	Q. Inflammation is a risk of non-mesh surgery	2	A. I would say they can be.
3	in the pelvic floor?	3	BY MR. THOMAS:
4	MR. AYLSTOCK: Objection to form.	4	Q. And are neuromuscular problems in the
5	A. Inflammation is a general process, it's not	5	abdominal area a potential risk of non-mesh surgery
6	really a risk.	6	in the pelvic floor?
7	BY MR. THOMAS:	7	MR. AYLSTOCK: Objection to form.
8	Q. Inflammation happens in connection with	8	A. I would say maybe the lower abdominal area
9	non-mesh surgery in the pelvic floor. Do you agree	9	it would be a potential risk.
10	with that?	10	BY MR. THOMAS:
11	A. Inflammation is a very broad subject. So	11	Q. And is there a risk of one or more
12	whether you're talking about transient inflammation	12	surgeries to treat an adverse event in non-mesh
13	or acute inflammation or granulomatous inflammation,	13	surgery in the pelvic floor?
14	it's a very general term.	14	MR. AYLSTOCK: Objection to form.
15	Q. All three of those that you just used are	15	A. I would say that's a general risk of any
16	risks of surgery risks of surgery for non-mesh	16	surgery.
17	surgery in the pelvic floor, aren't they?	17	BY MR. THOMAS:
18	MR. AYLSTOCK: Objection. Form.	18	Q. And is there a risk of recurrence or
19	A. I do not think so. You don't have a	19	failure in non-mesh surgery in the pelvic floor?
20	foreign body granulomatous inflammatory response if	20	MR. AYLSTOCK: Objection to form.
21	you're not using a foreign body.	21	THE WITNESS: Could you repeat that?
22	BY MR. THOMAS:	22	(The record was read as requested:
23	Q. To the extent there's sutures involved in	23	"And is there a risk of recurrence or
24	this surgery, it's a foreign body.	24	failure in non-mesh surgery in the
	Page 31		Page 33
1	A. Well, sutures can be absorbable or	1	pelvic floor?")
2	nonabsorbable.	2	A. Recurrence or failure of what?
3	So if they're nonabsorbable, yes. If	3	BY MR. THOMAS:
4	they're absorbable, once they're gone, no.	4	Q. Whatever condition is being treated.
5	Q. Okay. Is fistula formation a risk of	5	A. I would say that's a potential risk.
6	non-mesh surgery in the pelvic floor?	6	Q. And in non-mesh surgery in the pelvic floor
	A. I would think that fistula formation could	7	using sutures or grafts. There's a potential risk
7	be a potential risk for non-mesh surgery in the	1 0	
8		8	of a foreign body response. Would you agree with
8 9	pelvic floor.	9	that?
8 9 10	pelvic floor. Q. Are neuromuscular problems a risk of	9 10	that? MR. AYLSTOCK: Objection to form.
8 9 10 11	pelvic floor. Q. Are neuromuscular problems a risk of surgery non-mesh surgery in the pelvic floor?	9 10 11	that? MR. AYLSTOCK: Objection to form. A. What kind of grafts?
8 9 10 11 12	pelvic floor. Q. Are neuromuscular problems a risk of surgery non-mesh surgery in the pelvic floor? MR. AYLSTOCK: Objection to form.	9 10 11 12	that? MR. AYLSTOCK: Objection to form. A. What kind of grafts? BY MR. THOMAS:
8 9 10 11 12 13	pelvic floor. Q. Are neuromuscular problems a risk of surgery non-mesh surgery in the pelvic floor? MR. AYLSTOCK: Objection to form. A. I don't know what kind of neuromuscular	9 10 11 12 13	that? MR. AYLSTOCK: Objection to form. A. What kind of grafts? BY MR. THOMAS: Q. Any foreign body that you're putting in
8 9 10 11 12 13 14	pelvic floor. Q. Are neuromuscular problems a risk of surgery non-mesh surgery in the pelvic floor? MR. AYLSTOCK: Objection to form. A. I don't know what kind of neuromuscular problems you're referring to.	9 10 11 12 13 14	that? MR. AYLSTOCK: Objection to form. A. What kind of grafts? BY MR. THOMAS: Q. Any foreign body that you're putting in into the body.
8 9 10 11 12 13 14 15	pelvic floor. Q. Are neuromuscular problems a risk of surgery non-mesh surgery in the pelvic floor? MR. AYLSTOCK: Objection to form. A. I don't know what kind of neuromuscular problems you're referring to. BY MR. THOMAS:	9 10 11 12 13 14 15	that? MR. AYLSTOCK: Objection to form. A. What kind of grafts? BY MR. THOMAS: Q. Any foreign body that you're putting in into the body. A. Is it biological or synthetic?
8 9 10 11 12 13 14 15 16	pelvic floor. Q. Are neuromuscular problems a risk of surgery non-mesh surgery in the pelvic floor? MR. AYLSTOCK: Objection to form. A. I don't know what kind of neuromuscular problems you're referring to. BY MR. THOMAS: Q. Are neuromuscular problems in the pelvic	9 10 11 12 13 14 15 16	that? MR. AYLSTOCK: Objection to form. A. What kind of grafts? BY MR. THOMAS: Q. Any foreign body that you're putting in into the body. A. Is it biological or synthetic? Q. Well, let's start with synthetic.
8 9 10 11 12 13 14 15 16	pelvic floor. Q. Are neuromuscular problems a risk of surgery non-mesh surgery in the pelvic floor? MR. AYLSTOCK: Objection to form. A. I don't know what kind of neuromuscular problems you're referring to. BY MR. THOMAS: Q. Are neuromuscular problems in the pelvic floor muscles a risk of non-mesh surgery in the	9 10 11 12 13 14 15 16	MR. AYLSTOCK: Objection to form. A. What kind of grafts? BY MR. THOMAS: Q. Any foreign body that you're putting in into the body. A. Is it biological or synthetic? Q. Well, let's start with synthetic. A. Well, synthetic, yes.
8 9 10 11 12 13 14 15 16 17	pelvic floor. Q. Are neuromuscular problems a risk of surgery non-mesh surgery in the pelvic floor? MR. AYLSTOCK: Objection to form. A. I don't know what kind of neuromuscular problems you're referring to. BY MR. THOMAS: Q. Are neuromuscular problems in the pelvic floor muscles a risk of non-mesh surgery in the pelvic floor?	9 10 11 12 13 14 15 16 17	MR. AYLSTOCK: Objection to form. A. What kind of grafts? BY MR. THOMAS: Q. Any foreign body that you're putting in into the body. A. Is it biological or synthetic? Q. Well, let's start with synthetic. A. Well, synthetic, yes. Q. What about biological? Is there a risk of
8 9 10 11 12 13 14 15 16 17 18	pelvic floor. Q. Are neuromuscular problems a risk of surgery non-mesh surgery in the pelvic floor? MR. AYLSTOCK: Objection to form. A. I don't know what kind of neuromuscular problems you're referring to. BY MR. THOMAS: Q. Are neuromuscular problems in the pelvic floor muscles a risk of non-mesh surgery in the pelvic floor? MR. AYLSTOCK: Same objection.	9 10 11 12 13 14 15 16 17 18	MR. AYLSTOCK: Objection to form. A. What kind of grafts? BY MR. THOMAS: Q. Any foreign body that you're putting in into the body. A. Is it biological or synthetic? Q. Well, let's start with synthetic. A. Well, synthetic, yes. Q. What about biological? Is there a risk of a foreign body response to a biological graft?
8 9 10 11 12 13 14 15 16 17 18 19 20	pelvic floor. Q. Are neuromuscular problems a risk of surgery non-mesh surgery in the pelvic floor? MR. AYLSTOCK: Objection to form. A. I don't know what kind of neuromuscular problems you're referring to. BY MR. THOMAS: Q. Are neuromuscular problems in the pelvic floor muscles a risk of non-mesh surgery in the pelvic floor? MR. AYLSTOCK: Same objection. A. I would say they can be a potential risk.	9 10 11 12 13 14 15 16 17 18 19 20	MR. AYLSTOCK: Objection to form. A. What kind of grafts? BY MR. THOMAS: Q. Any foreign body that you're putting in into the body. A. Is it biological or synthetic? Q. Well, let's start with synthetic. A. Well, synthetic, yes. Q. What about biological? Is there a risk of a foreign body response to a biological graft? A. I guess it would depend on the type of
8 9 10 11 12 13 14 15 16 17 18 19 20 21	pelvic floor. Q. Are neuromuscular problems a risk of surgery non-mesh surgery in the pelvic floor? MR. AYLSTOCK: Objection to form. A. I don't know what kind of neuromuscular problems you're referring to. BY MR. THOMAS: Q. Are neuromuscular problems in the pelvic floor muscles a risk of non-mesh surgery in the pelvic floor? MR. AYLSTOCK: Same objection. A. I would say they can be a potential risk. BY MR. THOMAS:	9 10 11 12 13 14 15 16 17 18 19 20 21	MR. AYLSTOCK: Objection to form. A. What kind of grafts? BY MR. THOMAS: Q. Any foreign body that you're putting in into the body. A. Is it biological or synthetic? Q. Well, let's start with synthetic. A. Well, synthetic, yes. Q. What about biological? Is there a risk of a foreign body response to a biological graft? A. I guess it would depend on the type of graft.
8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	pelvic floor. Q. Are neuromuscular problems a risk of surgery non-mesh surgery in the pelvic floor? MR. AYLSTOCK: Objection to form. A. I don't know what kind of neuromuscular problems you're referring to. BY MR. THOMAS: Q. Are neuromuscular problems in the pelvic floor muscles a risk of non-mesh surgery in the pelvic floor? MR. AYLSTOCK: Same objection. A. I would say they can be a potential risk. BY MR. THOMAS: Q. Are neuromuscular problems in the lower	9 10 11 12 13 14 15 16 17 18 19 20 21 22	MR. AYLSTOCK: Objection to form. A. What kind of grafts? BY MR. THOMAS: Q. Any foreign body that you're putting in into the body. A. Is it biological or synthetic? Q. Well, let's start with synthetic. A. Well, synthetic, yes. Q. What about biological? Is there a risk of a foreign body response to a biological graft? A. I guess it would depend on the type of graft. Q. And for the use of sutures and grafts in
8 9 10 11 12 13 14 15 16 17 18 19 20 21	pelvic floor. Q. Are neuromuscular problems a risk of surgery non-mesh surgery in the pelvic floor? MR. AYLSTOCK: Objection to form. A. I don't know what kind of neuromuscular problems you're referring to. BY MR. THOMAS: Q. Are neuromuscular problems in the pelvic floor muscles a risk of non-mesh surgery in the pelvic floor? MR. AYLSTOCK: Same objection. A. I would say they can be a potential risk. BY MR. THOMAS:	9 10 11 12 13 14 15 16 17 18 19 20 21	MR. AYLSTOCK: Objection to form. A. What kind of grafts? BY MR. THOMAS: Q. Any foreign body that you're putting in into the body. A. Is it biological or synthetic? Q. Well, let's start with synthetic. A. Well, synthetic, yes. Q. What about biological? Is there a risk of a foreign body response to a biological graft? A. I guess it would depend on the type of graft.

9 (Pages 30 to 33)

Page 34 Page 36 1 MR. AYLSTOCK: Objection to form. 1 pores should be? 2 Completely vague. 2 A. I didn't specifically pay attention to 3 3 A. It would depend on the exact type of numbers with respect to pore sizes. 4 4 surgery and where those grafts or sutures are. Q. But, do you, as you sit here today, have an opinion about how large the pore needs to be so that 5 BY MR. THOMAS: 5 6 Q. Is there a risk of contraction of or 6 these issues that you just identified with the pore 7 7 shrinkage of tissues in non-mesh surgery involving size don't occur? 8 A. I just said that I don't have any specifics 8 the pelvic floor? 9 MR. AYLSTOCK: Objection to form. 9 with regards to the numbers, the sizes of the pores. 10 Q. No matter what the size of the pore, in A. Well, with respect to scars, you can have a 10 your opinion, is there still a risk of the issues 11 contracture of a scar. I guess it just is different 11 with respect to quality and quantity of the you just described from the use of any mesh for the 12 12 contracture. 13 treatment of conditions in the pelvic floor? 13 14 14 MR. AYLSTOCK: Objection to form. BY MR. THOMAS: 15 15 Q. Let's go to Exhibit 3, please. In A. Well, I would say with regards to that 16 Exhibit No. 3 you discuss the issue related to pore 16 question the keyword would be "any." So there could 17 size in mesh. Fair? 17 be any risk, it's just depending on the amount. 18 BY MR. THOMAS: 18 A. I would say in very vague terms, yes. 19 Q. What do you look for in pathology for 19 Q. What did you know about issues related to pore size before your work in this case? 20 evidence that pores in the mesh are causing a 20 21 A. Very little general information. 21 complication? Q. What did you know before your work in this 22 A. Well, under the microscope I would look at 22 23 case? 23 the tissue between the filaments which represents 24 A. That pore size varied based on the mesh. the pores, or the filament spaces which would Page 35 Page 37 1 Q. Is that all you knew before your work in represent the pores, and see what kind of tissue is 2 2 this case? between those and associated with those. 3 3 Q. What kind of tissue do you want to see to MR. AYLSTOCK: Objection to form. 4 A. And that there were differences with them. 4 show that there are no complications? 5 5 But I didn't know specific differences until I MR. AYLSTOCK: Objection to form. started reading the literature with respect to this 6 6 THE WITNESS: Could you repeat that? 7 7 litigation. THE REPORTER: Yes. BY MR. THOMAS: 8 8 (The record was read as requested: 9 9 Q. Okay. After you began your work on this "What kind of tissue do you want to 10 litigation and you reviewed the litigation --10 see to show that there are no reviewed the literature, what is the problem with 11 complications?") 11 A. I don't think there would be any tissue 12 pore size? What is the issue? 12 13 A. Well, I would say the main issue, from my that would confirm that there are zero 13 14 point of view as a pathologist, is that the smaller 14 complications. 15 the pore size, the less likely you can have adipose 15 BY MR. THOMAS: tissue infiltrate into those pores between the 16 Q. Okay. Let me ask this question. I 16 probably asked a bad question. 17 filaments, and so there's much more likely to have 17 18 bridging fibrosis between the filaments which will 18 What tissue are you looking for to identify any risk of complications from pore size? 19 make the mesh less pliable, firmer, and also create 19 a microenvironment where it's basically a 20 MR. AYLSTOCK: Objection to form. 20 constricting compartment-type syndrome with respect 21 A. Well, again, I would say if I'm looking at 21 to the tissue that's able to infiltrate and 22 the tissue and the mesh, that there's a problem with 22 incorporate within the pores. 23 the mesh. There was a problem that was identified Q. Do you have an opinion about how large the by the clinician with that mesh, depending on the 24

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Page 38 Page 40 clinical scenario, of course, and this isn't an condition. It's more of a consequence or a finding 1 autopsy and I'm looking at mesh. 2 2 where based on typically scar formation, you have a 3 So I would say features that would be 3 contracture or compression or shrinking, so to most commonly associated with better incorporation 4 4 speak, of tissue where it comes together, is firm of mesh would be seeing abundant adipose tissue in 5 5 and, I guess, less mobile. 6 between the filaments which would indicate that 6 Q. Again, is this an issue that you learned 7 7 there would maybe be possibly less constriction from the literature or an issue that you learned within those pores. 8 about from your own experience? 8 9 THE WITNESS: Can we get some more 9 A. About contracture in mesh? Or contracture 10 water? 10 in general? 11 11 MR. AYLSTOCK: Sure. Q. Contracture in mesh. 12 A. Well, I would say both. I would say my 12 MR. THOMAS: There's a refrigerator 13 experience as a pathologist when I've examined mesh 13 full of it. MR. AYLSTOCK: And any time you want as a day-to-day workload issue, you can see that 14 14 it's not normal mesh and that it's crinkled and 15 to take a break. 16 THE WITNESS: I'm fine. 16 contracted, irregular, deformed. I would say all of 17 17 those would correspond to that finding or (Pause in proceedings.) 18 THE WITNESS: All right. Thank you. consequence of contracture. 18 Q. Every time that you've looked at mesh in 19 BY MR. THOMAS: 19 20 Q. In your general report, Exhibit No. 3, you 20 your work as a pathologist, has it been in a 21 also discussed issues of the weight of the mesh. 21 histopathological slide? A. No. 22 What is your criticism about the weight 22 23 of mesh? 23 MR. AYLSTOCK: Objection to form. 24 24 /// MR. AYLSTOCK: You mean page number 3? Page 39 Page 41 1 1 MR. THOMAS: Page 3, Exhibit 3. BY MR. THOMAS: 2 A. Well, as I stated, mesh that has a lighter 2 Q. Have you looked at any mesh other than mesh 3 weight has better tissue integration with less 3 that had already been affixed in formalin? inflammation and scar formation, and is more likely 4 A. Yes. 5 5 to remain more pliable over time than a Q. Have you looked at pelvic floor explants -heavier-weight mesh. 6 analyzed pelvic floor explants before they've been 6 7 BY MR. THOMAS: 7 fixed in formalin? 8 Q. Are those statements in your report that 8 MR. AYLSTOCK: Objection to form. 9 A. Grossly, yes. you just referred to, are those based on your review 10 of the literature or based upon your own experience? 10 BY MR. THOMAS: A. Based on my review of the literature. 11 Q. Okay. And under what circumstances would 11 12 you, as a pathologist, look at pelvic floor explants 12 Q. You've not done a comparative study of different weight meshes to see how they perform in before they've been fixed in formalin? 13 13 14 the pelvic floor. Is that fair? 14 A. When it comes from the surgeon and we 15 A. That's correct. I have not done my own 15 examine it grossly before formalin's been added. 16 Q. You told me before that you think about study. 16 17 Q. And you've not done any kind of study on 17 over the last seven or eight years you've maybe 18 your own to determine how different pore sizes 18 looked at about two dozen pelvic floor mesh 19 perform in the pelvic floor. Is that correct? 19 explants. How many times have those mesh explants 20 20 A. That's correct. been delivered to you without being placed in 21 21 Q. You also discuss in your report the risk of formalin? a condition known as contracture. What is 22 22 MR. AYLSTOCK: Objection to form. A. I don't know. I would say maybe half of 23 23 A. I don't know if I would call it a 24 the times that I initially examined them and then 24

11 (Pages 38 to 41)

Page 44 Page 42 added the formalin to the container. Q. And you understand that formalin fixation 1 1 2 BY MR. THOMAS: 2 will cause excised tissue to contract due to the 3 3 Q. Do you agree that when mesh that's been cross-linking of the proteins and the collagen? 4 MR. AYLSTOCK: Objection to form. 4 implanted in the pelvic floor is removed from the 5 body that the tissues surrounding the mesh contract? 5 A. I haven't specifically read those details 6 MR. AYLSTOCK: Objection to form. 6 about mesh and formalin fixation and, quote/unquote, 7 7 "contracting." A. I don't understand that question. 8 8 BY MR. THOMAS: BY MR. THOMAS: 9 Q. Okay. You understand that when mesh is 9 Q. Do you have reason to disagree with that implanted in the pelvic floor that the tissue grows statement? 10 10 in through the pores of the mesh and -- grows 11 A. Well, I would have to see the data and the through the pores of the mesh? 12 studies that have -- the biochemical studies. I'm 12 13 A. Yes. not, you know, a polymer scientist, so I don't have 14 O. And then when mesh is removed, when the 14 all those studies off the top of my head. 15 Q. As a part of your work in this case, have 15 tissue and the elastins in the tissue are released from the body, that the mesh itself with the tissue 16 you analyzed how various meshes are implanted in the 16 then contracts before it's placed in formalin. Do 17 body? 17 you agree with that? 18 18 A. I would say generally speaking. 19 Q. And how did you familiarize yourself with 19 MR. AYLSTOCK: Objection to form. the mesh implantation process? 20 A. I don't know that I would use the word 20 21 "contract" in that -- I guess --21 A. I watched some videos. I know from my own 22 I guess I could say that it changes 22 experience as a physician, both in medical school 23 shape or maybe is deformed. But when I am thinking and doing internships, I've witnessed some of these of -- when we're discussing contracture, I'm types of procedures during urology. Page 43 Page 45 thinking more of the pathophysiologic fibrosis that 1 I would say kind of over the years I 2 draws the tissue together. But does it change shape have had different experiences that have 3 after its out of the body artifactually based on the 3 familiarized myself with those types of surgical circumstances that it was in both in vivo and then 4 procedures. 5 5 outside? Yes. Q. Do you remember the videos you watched? 6 A. I don't remember the specific videos. 6 BY MR. THOMAS: 7 7 Q. I didn't see them on your reliance list. Q. Okay. And why does that happen? A. Well, that happens with almost any type of 8 A. Well, I didn't also put my urology rotation 8 specimen, that when you remove it, there is a change 9 9 in medical school on my reliance list, but that's --10 in the way the tissue is laying, in the way the 10 Q. But you've reviewed these videos in tissue is shaped. And it's because in the body 11 connection with your work in this case, didn't you? 11 when -- before a particular type of tissue, whatever 12 MR. CURTIS: Objection. Let him it is, is removed, it's within a structural 13 13 answer. 14 framework. And once you remove that structural 14 A. Yeah. framework, there are natural consequences to taking 15 So no. In the past -- I would say in 15 that out and it no longer looks the same as when it 16 the past and in connection with this case, there are 16 several different types of experiences that I've had 17 was in the body. 17 18 Q. And when you then take the explant and 18 that have formed my, I guess, familiarity with the place it in formalin, you understand that formalin 19 19 procedures.

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BY MR. THOMAS:

mesh removal process?

Q. Have you familiarized yourself with the

different ways, so I don't know if there is an exact

A. I would say that mesh is removed in

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22

specimen.

tissue in formalin, yes.

reacts with the proteins on the mesh to fix the

A. The proteins that are in the tissue, the

tissue changes predominantly, and that's with any

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process of how a mesh, from one patient to another, 2 is removed.

Q. Fair enough.

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Have you made any attempt to study the 4 5 different ways that mesh may be explanted from the 6 pelvic floor?

- A. I don't really understand that question.
- That's like -- I don't understand that question. 8 9
 - Q. What don't you understand?
- 10 A. Well, it's like asking me have I studied the ways that I can walk from point A to point B. 11

It depends on how mesh is removed; it 12 13 depends on where it is in the body, and what vital structures it's next to. And if it's eroded into 14 15 the rectum, has it eroded into the vagina? Has it 16 eroded into the urethra? Has it eroded into the 17 bladder? Has it ruptured a vessel?

I mean, how it will be removed surgically, even though I'm not a surgeon, it's clear that it would be completely based on the anatomic location that mesh had eroded into.

22 Q. In connection with your work on the six 23 cases for which you've given opinions in this

litigation, have you studied the methodology used by

1 A. Well, we want others to do them; not that I

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allow them. 3 Q. Why do you want others to do them?

4 A. Because that's what they do for a living 5 and my focus is diagnostics.

6 Q. Have you studied the effect of the slide 7 preparation process on the polypropylene mesh in the 8 slides that you looked at in this litigation?

A. I reviewed some studies that addressed both polypropylene material being -- maybe changes that occurred, or that were thought to have occurred because of the processing, and then other studies 12 13 that looked at the polypropylene without any sort of processing. I've looked at, I think, both of those 14

15 types of studies. 16 Q. Are those peer-reviewed studies or are 17 those expert opinion reports?

A. I thought they were peer-reviewed studies.

Q. Would those studies be in your reliance 19 20 list, Exhibit No. 4?

21 A. I don't know. I think so, maybe.

22 Q. Okay. And do you recall what you concluded 23 from your review of the studies about any impact

24 that the slide preparation process may have on the

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the surgeon to remove the mesh?

- A. Well, I read the operative reports.
- 3 Q. Anything else?
- 4 A. Not that I can recall, other than reading 5 the operative reports that were associated with the 6 procedures.
- 7 Q. Doctor, do you consider yourself 8 knowledgeable about the pathology slide preparation 9 process?
- 10 A. I would say I have a general knowledge, but I don't participate in that as a pathologist. 11
- 12 Q. Have you ever, yourself, processed
- histology slides from pathology? 13
- 14 A. Processed in what respect?
- 15 Q. Put the tissue in a paraffin block.
- 16 A. I've put the tissue in the block and then I
- 17 have loaded the cassettes in the past into the
- 18 processor and taken them out, but I've never 19
- actually inserted the paraffin into the block once 20 the tissue has been finally processed.
- 21 Q. Do you do the microtoming?
- 22 A. I have in the past.
- 23 Q. Is that something you typically allow

others to do now?

polypropylene that you analyzed in connection with 2 these cases?

3 A. Well, my conclusion was that, based on what

I was seeing and what you see in general under light 5 microscopy, with regards to the characteristics of

6 the polypropylene that it was not significantly 7 influenced based on the processing.

Q. I believe you just told me it was based on your review of the slides. What I'm interested --

A. And the literature.

Q. And what I'm interested in is what did the literature tell you about the impact of the slide preparation process on the polypropylene that you were looking at in connection with these cases?

MR. AYLSTOCK: Objection to form. I think he's already answered that.

A. When I form an opinion it's based on everything, it's not based on just one thing. So I

18 19 don't remember what I was specifically thinking when

20 I was just looking at one or a couple of studies.

21 But my general opinion with regards to that subject

is what I just said. 22

23 BY MR. THOMAS:

24 Q. Okay. And when you say it's not

13 (Pages 46 to 49)

Page 50 Page 52 significantly affected, do you have any opinions it that fair? 1 2 affected at all? 2 A. Yes. I would say that's fair. We take all 3 3 MR. AYLSTOCK: Objection to form. of that into consideration. 4 4 A. Well, I think the slide processing in Q. Prior to your work in this case, had you read anywhere that as polypropylene mesh degraded 5 pathology in general is, you know, a process that 5 6 has gone on for years, and we know that it changes 6 in vivo? 7 7 everything. It changes DNA, RNA, proteins; it A. You said "mesh"? changes antigen retrieval. But what is important is 8 O. Yes. 8 9 if there's any substantive changes to the tissues. 9 A. I don't recall seeing anything or having 10 So, for example, if I'm looking at a remembered reading anything about mesh, in general, 10 breast cancer and it's been in formalin for a day, that's derived from polypropylene, but suture 11 11 12 does that change the proteins of that cancer that it material, yes. 12 13 expresses? Yes. Does it change it to the respect 13 Q. And when you talk about suture material, that it would impact anything negatively or change 14 are you talking about polypropylene suture material? 14 anything in a clinically significant way? No. 15 A. Well, in general, yes. 15 16 And I would say the same thing with 16 I would say I've read about different 17 any type of tissue or synthetic material, that, you 17 types of both absorbable and nonabsorbable suture know, does the processing maybe change something at material and other types of material that can be 18 18 a molecular or biochemical level. I would imagine implanted and how it degrades. 19 19 20 that it would. There's different chemicals that are 20 Q. Prior to your work in this case, what was 21 being exposed to it, but does it make it look one 21 your knowledge about Prolene mesh or sutures way versus another? No. I would say, no. 22 degrading in the body? 22 23 BY MR. THOMAS: 23 MR. AYLSTOCK: Objection to form. 24 Q. Does the microtoming process make the 24 A. Prolene, you mean like with a capital "P," Page 51 Page 53 appearance of the tissue change from the way it was 1 Prolene, from polypropylene or ... 2 2 in vivo to the way it is under the slide? BY MR. THOMAS: 3 MR. AYLSTOCK: Objection to form. 3 Q. Correct. Prolene --4 A. I would say the microtoming process can. 4 Did you know that "Prolene" is the 5 5 brand name for Ethicon's polypropylene? But usually, as a pathologist, you can identify when there are folds in the tissue as opposed to 6 A. Yes. That's why I was clarifying. 6 7 7 I don't specifically remember seeing something that is occurring biologically or 8 pathologically. 8 the brand name. 9 9 BY MR. THOMAS: Q. What about polypropylene, generally? What 10 Q. There are artifacts that can occur in the 10 is your recollection before this litigation about microtoming process that pathologists can detect. your knowledge of polypropylene mesh or sutures 11 11 degrading in the body? 12 A. That was a statement; are you asking a 12 13 A. That the sutures can. That was before this 13 question? 14 Q. Yes. 14 litigation that they can degrade. 15 15 Q. In what context? Is that true? 16 A. So yes. In any type of specimen, there are A. In what context "what"? 16 artifacts that we can see and are comfortable 17 17 How does it happen? 18 usually identifying that are artifacts of the 18 Q. What do you remember that you read that the microtoming process and of the fixation process and 19 19 polypropylene sutures degraded? 20 of the staining process. 20 A. I didn't read about -- I don't remember 21 Q. Each one of those three is capable of 21 reading about the biochemical consequences or 22 producing artifacts, and it's the job of the 22 mechanisms, just that it can. pathologist to identify those artifacts and take 23 From a pathologist's point of view those into consideration with your analysis. Is 24 with respect to recognizing changes in the tissue,

14 (Pages 50 to 53)

Page 56 Page 54 because we not infrequently will see suture material 1 be the mechanisms of this degradation 2 in all types of excisions. 2 over time?") 3 3 Q. Prior to your work in this case, have you MR. AYLSTOCK: Same objection. 4 ever analyzed polypropylene mesh to determine the A. I don't know if I've specifically studied extent to which it may have degraded in the body? 5 that. I mean, there have been probably basic 6 A. No. I don't recall having done that 6 general discussions about biologic mechanisms that 7 7 contribute to degradation of foreign material in 8 8 general, but I wouldn't say that I specifically Q. Prior to your work in this case, have you 9 ever analyzed polypropylene sutures to determine the 9 analyzed those. extent to which they may have degraded in the body? BY MR. THOMAS: 10 10 A. I would say I haven't analyzed them with 11 11 Q. If you go to page 5 of Exhibit No. 3. 12 respect to extent, just known that it occurs -- can 12 A. Okay. occur after a period of time and will have seen 13 Q. And the paragraph beginning "Finally," you suture material microscopically, but not more than talk about degradation. 14 14 15 These are all -- strike that. 15 16 Q. And those times that you've just described, 16 The papers and the documents that are 17 is that in connection with your work as a 17 listed in that paragraph, are those things that you pathologist? reviewed in connection with your work in this 18 18 A. Yes. 19 19 litigation specifically. Is that fair? 20 20 A. They're some of them, yes. Q. And do you remember the specifics of those 21 circumstances where you recall seeing polypropylene 21 Q. Okay. But there's nothing in paragraph -sutures degrade? 22 in that paragraph that you had reviewed and read 22 23 A. They were in the setting of a prior prior to the time of your work in this litigation. 24 Is that fair? abdominal surgery, from my recollection, and it was Page 55 Page 57 a re-excision of a tumor that had recurred. And 1 MR. AYLSTOCK: Objection to form. 2 there was a discussion in the past about -- this is 2 A. Let me read the paragraph. 3 more of an academic discussion about focusing on the 3 BY MR. THOMAS: suture material and the types of foreign body 4 Q. I'm referring to the studies in the Ethicon responses and what to look for as a pathologist, and 5 5 documents themselves. what can be associated with them, et cetera. 6 6 A. You're referring to what? 7 7 Q. What conclusions did you reach about the Q. Let me ask the question again, Doctor. I'm 8 use of polypropylene sutures in the body following 8 trying to make it simple. 9 9 that experience as a pathologist? In this paragraph on page 5 you list a 10 A. I wouldn't say there were any dramatic 10 number of papers. Correct? conclusions, just that it could degrade over time. 11 11 A. Yes. 12 Q. And other than your work in this case, have 12 Q. Those papers were supplied to you by 13 you studied what are alleged to be the mechanisms of 13 counsel as a part of your work in this litigation. this degradation over time? 14 A. I don't know if all the papers were. 14 15 MR. AYLSTOCK: Objection to form. 15 Q. Do you recall seeing any of those papers 16 A. With this case? Or litigation? prior to your work in this litigation? 16 17 BY MR. THOMAS: 17 MR. CURTIS: I apologize. I'm 18 Q. Litigation. 18 confused. Are you talking about the Ethicon-only 19 A. Oh. 19 documents? 20 20 THE WITNESS: Can you repeat that? MR. THOMAS: I'm talking about the 21 THE REPORTER: Yes. 21 papers now. I haven't talked about the Ethicon 22 (The record was read as requested: 22 documents yet. 23 "And other than your work in this case 23 MR. CURTIS: All right. 24 have you studied what are alleged to 24 A. I don't recall.

15 (Pages 54 to 57)

Page 58 Page 60 1 BY MR. THOMAS: 1 A. Well, that would be, I guess, the 2 Q. Okay. What is the clinical significance of 2 pathological features which would correlate with 3 the degradation that you describe in paragraph -- in 3 other clinical symptoms. 4 4 that paragraph on page 5 of the report? Q. Okay. Let me ask it this way, then: 5 MR. AYLSTOCK: Are you talking about 5 Is it fair to understand from your 6 the "Finally" paragraph? 6 perspective as a pathologist that the significance of 7 7 the degradation to you would be an increased MR. THOMAS: I'm talking about 8 inflammatory response and increased scarring? 8 degradations. 9 BY MR. THOMAS: 9 A. I would say those would be the main things, 10 Q. But let me ask it this way: 10 yes. 11 What is the clinical significance of 11 Q. And however those manifested themselves in what you describe as degradation in your report? 12 12 patients would be another issue? 13 A. I would say the clinical significance with 13 A. Correct. respect to degradation is that once you're degrading 14 Q. All right. Are you aware of any scientific 14 study published anywhere that describes the clinical a foreign body and it breaks apart, there's a 15 16 greater surface area now to that foreign body that's 16 significance that you've just related to 17 in connection and in affiliation with the tissue. 17 degradation? 18 18 So that would increase the inflammatory response, A. I've seen it described. It's not like I 19 19 because now you have new foreign antigens that are just made that up. So yeah. I have. I just -- I 20 20 don't know -- I wouldn't know who's the author. in, I guess, direct contact with the tissue. 21 21 Q. Okay. Did you know this information or That would then increase the 2.2 have this opinion prior to your work in this case? 22 inflammatory response, and that increased 23 inflammatory response would potentially or likely, 23 A. Well, I would have that general opinion, given the severity of it, lead to additional damage but I hadn't specifically studied it prior to this Page 59 Page 61 to the remaining polypropylene or foreign material. case in the depth that I have, no. And then that would then lead to more breakdown and 2 2 Q. What is your knowledge of the extent to 3 more degradation, which would then turn into this, 3 which -- strike that. you know, basically cyclical phenomenon where you 4 What is your opinion about the extent 5 5 have a feedback loop that's just constantly going, to which mesh implanted in the pelvic floor degrades? contributing, to greater amounts of inflammation and 6 6 Is there a limit to it? 7 7 scarring. MR. AYLSTOCK: Objection to form. 8 8 Q. Have you finished? THE WITNESS: Could you repeat that? 9 9 A. Yes. I'm sorry. 10 Q. Okay. Can I limit the clinical 10 THE REPORTER: Yes. significance that you identify from the degradation 11 11 (The record was read as requested: process that you describe to be an increased 12 12 "What is your opinion about the extent inflammatory response and increased scarring? 13 to which mesh implanted in the pelvic 13 14 MR. AYLSTOCK: Objection to form. 14 floor degrades? Is there a limit to 15 15 BY MR. THOMAS: it?") 16 Q. Those are the two things you just told me, 16 MR. AYLSTOCK: Same objection. 17 17 I think. MR. CURTIS: Yeah. I'm sorry. I just 18 A. Well, I said a whole paragraph, so ... 18 don't understand the question. Go ahead. 19 A. Me neither. Yeah. 19 Q. I know. I was listening carefully. I 20 thought you described each time those things: I would have to -- I don't understand 20 Increased inflammatory response, due to the cyclical 21 what you mean by "a limit," so I don't understand 21 nature of it, and then increased scarring because of 22 the question. 22 23 the increased inflammatory response. 23 BY MR. THOMAS: 24 Is there anything else? 24 Q. Okay. You've read Dr. Iakovlev's report.

16 (Pages 58 to 61)

Page 64 Page 62 Correct? 1 the -- I've studied it in the sense that I have 1 2 A. Some of them. 2 examined it myself. So I would say, by definition, 3 Q. You know Dr. Iakovlev said that the outer 3 I'm studying it. 4 4 core of polypropylene mesh degrades and then it But with respect to the extent, I 5 stops. Do you know that? 5 haven't done a comparison study with regards to 6 MR. AYLSTOCK: Objection to form. 6 other types of synthetic material and their 7 7 A. I don't specifically recall those words. embrittlement. 8 8 BY MR. THOMAS: BY MR. THOMAS: 9 Q. Do you have any opinions suggesting that 9 Q. Is it fair to say that the opinions that 10 the degradation that you've studied and describe in you have with respect to embrittlement and crack 10 11 your report on page 5 stops after a certain period 11 formation, based on work that you've done yourself, 12 of time? 12 is your work in these cases? 13 MR. CURTIS: I don't know if it makes 13 A. No. 14 14 a difference. You repeatedly refer to that Q. What other work have you done to study the section -- "Comment" section in Exhibit 3 as his 15 embrittlement and crack formation on 16 general report. I think his testimony was those 16 Prolene polypropylene? 17 pages contained his general opinions, not that it's 17 A. Well, the embrittlement is by my own his general report. That's a distinction he made. examination of the gross specimens in the past. I 18 18 MR. THOMAS: I'm not worried about didn't examine any of these specimens grossly. 19 19 20 that. If you want to make that distinction, that's 20 So when I've -- you know, my 21 experience, I guess, as a pathologist and a 21 up to you. 2.2 MR. CURTIS: No, no. I just want to 22 physician outside of the context of this litigation 23 make sure that when we're finished with the process, 23 is -- is we've already discussed there are a couple we all understand what you were after. of dozen cases where I've seen the mesh myself, and Page 65 Page 63 1 BY MR. THOMAS: examined it, both in the context of prior to 2 Q. Is it your opinion that degraded mesh 2 formalin fixation and after formalin fixation. And 3 becomes embrittled? 3 when I've examined those, those have been very stiff 4 and rigid and sharp, and I would say that that A. Yes. 5 contributes to my knowledge of that process. Q. Is it your opinion that degraded mesh forms 5 cracks on the surface? 6 Now, whether I've actually looked at 6 7 7 them, you know, biochemically, no, I haven't. But, A. Yes. 8 you know, studying them, I would say that my 8 Q. And is it your opinion that degraded mesh loses mechanical properties? 9 experience in the past would be characteristic of 9 10 A. Yes. I would say all those are both my 10 studying the material. opinions and the opinions of the general medical 11 Q. Do you have available for us to analyze the 11 12 pathology samples that you looked at over the past 12 literature. 13 seven or eight years where you've reached these 13 Q. Have you ever studied the extent to which conclusions? Prolene polypropylene embrittled over time? 14 14 15 MR. AYLSTOCK: Objection to form. 15 A. No. 16 16 Q. Do you have pathology reports for those two Suture? dozen or so times where you had the opportunity to 17 A. I don't ... 17 18 THE WITNESS: Could you repeat that? 18 analyze explants from the pelvic floor? 19 19 THE REPORTER: Yes. A. I don't have them myself, no. (The record was read as requested: 20 Q. The last thing you say is the 20 21 "Have you ever studied the extent to 21 polypropylene -- excuse me -- that polypropylene 22 which Prolene polypropylene becomes 22 loses mechanical properties. What mechanical embrittled over time?") 23 23 properties are you referring to there? 24 A. Well, I would say with regards to study 24 MR. AYLSTOCK: Where are you at?

17 (Pages 62 to 65)

Page 66 Page 68 1 MR. THOMAS: Right in the middle of 1 cetera? 2 the paragraph. "... embrittlement, crack formation, 2 So over time, I've become somewhat 3 and loss of mechanical properties." familiar with the different types even before this A. I would have to re-review that Clave 4 4 litigation. So that's why I said I would say most article. 5 5 of them, but I didn't do a particular count. 6 BY MR. THOMAS: 6 Q. So to the extent that degradation 7 7 associated with a mesh implant is causing clinical Q. Okay. As you sit here today, you don't significance you would expect to find increased know what mechanical properties? 8 8 9 A. Well, no. I'm using that as a general 9 inflammation around that degradation. Is that fair? 10 term, but not the specific mechanical properties MR. AYLSTOCK: Objection to form. 10 other than their ability to perhaps be functional. 11 11 A. I would expect to see inflammation. Q. Are you relying on the work of others to 12 12 Correct. support your opinion that polypropylene that goes 13 13 MR. AYLSTOCK: Dave, whenever you're through a degradation process loses mechanical at a good point, I could use a bathroom break. 14 14 properties. MR. THOMAS: Let's take a break. 15 15 16 A. Not entirely, no. 16 (Recess from 9:31 a.m. to 9:40 a.m.) 17 Q. And what is your own experience that allows 17 BY MR. THOMAS: you to offer that opinion? 18 Q. Doctor, you told me earlier that you 18 A. Well, because I have felt and know what the 19 reviewed some information from Dr. Iakovlev. 19 20 mesh feels like and functions like before it's 20 implanted. I have felt it before and I've also felt 21 Q. Did you review expert reports from 21 it as a pathologist when it's come out of the 22 Dr. Iakovlev? 22 23 patient. And it's in some of these cases that I 23 A. Yes. 24 have been aware of -- obviously, I don't examine all 24 Q. How many? Page 67 Page 69 of these patients that don't have the mesh removed, 1 A. One or two maybe. 2 Q. Did you review any depositions of 2 and maybe some of them it stays relatively pliable. 3 I don't know the extent. 3 Dr. Iakovlev? 4 4 But in the ones that I have examined, A. Yes. 5 Q. How many? they are hard and don't move very much, and I would 5 6 6 say that that is reflective of the fact that their A. I think two. 7 7 physical and mechanical properties have been Q. Did you review any other documents from 8 altered. 8 Dr. Iakovlev? 9 9 A. Just articles that he's published in the Q. Do you know which of the meshes that you've 10 held in your hands following explant before fixation 10 peer-reviewed literature. in formalin were Prolene meshes? 11 Q. Do you still have the depositions that you 11 A. I would say, from my understanding, most of 12 reviewed of Dr. Iakovlev? 12 them were. But I don't know the percentage. 13 A. I would imagine they're on that flash 13 14 Q. And why do you say most of them were? 14 drive. 15 A. Because when I have these gross specimens 15 Q. Okay. And do you still have the studies 16 with synthetic material or any type of foreign 16 that you reviewed of Dr. Iakovlev? 17 material, I make a habit of reviewing the operative 17 A. Yes. Same thing. They're on the flash 18 reports to correlate what I'm seeing and what I'm 18 drive. not seeing, what I'm not submitting for 19 19 Q. They're not on your exhibit list or your histopathologic evaluation. 20 reliance list. That's why I asked the question. 20 21 So in these operative reports they 21 A. Oh, well, some of it I've gotten since I 22 will discuss, this is this type, this is this type. 22 submitted my reports. You know, this is, whatever, Boston Scientific. You 23 Q. We got an updated one Thursday. know, whether it's an implant for breast implant, et 24 A. An updated what?

18 (Pages 66 to 69)

Page 72 Page 70 1 1 Q. Reliance list, Thursday. BY MR. THOMAS: 2 A. I don't know. 2 Q. Did you give me everything you have, to the 3 Q. What have you gotten since you've submitted 3 best of your ability? 4 your reports that you've reviewed in connection with 4 A. Everything that my understanding was that I 5 your work in this case? 5 was supposed to provide you --6 A. Some of the client deposition transcripts. 6 Q. Okay. 7 7 Q. "Client" as in plaintiff deposition A. -- is on that disc -- or that USB, from my transcripts? 8 8 understanding. 9 A. Yeah. Sorry. The plaintiff. 9 Q. Are there any materials that you gathered Q. We each have different clients. 10 10 yourself or you received from others in connection 11 A. Right. Sorry. 11 with your work in this case that you did not produce 12 The -- some of the plaintiff 12 deposition transcripts. 13 13 A. I don't know what types of materials those 14 I've reviewed some of the defense 14 would be. expert reports. 15 15 Q. As far as you know, you gave us everything 16 I've reviewed probably some additional 16 that you either found yourself or that others gave medical literature, just in general. 17 you in connection with your work in this case? 17 Q. Is Exhibit No. 2 a complete electronic file 18 18 A. That's my understanding. 19 Q. And for what purpose did you review the 19 of the information that you've been provided and reviewed in connection with your opinions in the 20 depositions of Dr. Iakovlev? 20 21 A. Well, they sent them to me. 21 case? 2.2 And I said that I wanted to review 2.2 A. It's as complete as I am aware. 23 Q. Okay. Was there any attempt by you to 23 them, because -- since he's a pathologist expert in this litigation as well, I wanted to see the types 24 segregate out things from the electronic file, Page 73 Page 71 Exhibit No. 2, that you didn't produce to us? 1 of questions that he was being asked. 1 2 2 MR. AYLSTOCK: Well, again, we've And, you know, if there was something 3 lodged our objections to a lot of the materials in 3 that surprised me about what they were asking, or 4 there and you have those objections. 4 something that I didn't think about that I should 5 And you can ask the question. 5 have evaluated or -- you know, I mean, I'm -- I'm a 6 A. I didn't catch the end of that question. 6 human being just like everybody else, so I can make 7 7 THE REPORTER: Do you need me to mistakes, like anybody else. 8 repeat it? 8 And I thought, well, let me see if 9 9 maybe he has a different understanding if he's asked THE WITNESS: Yes, please. 10 (The record was read as requested: 10 a question, and I think, well, okay, this is how I "Was there any attempt by you to 11 11 would answer the question. segregate out things from electronic 12 12 But then he answers it a different file, Exhibit No. 2, that you didn't 13 13 way. And then I have to think to myself, well, this 14 produce to us?") 14 is just in general. Well, am I thinking about it MR. CURTIS: I don't even know what differently or is he thinking about it differently? 15 15 that means. Do you mean --Let me go back to the literature on 16 16 17 MR. THOMAS: He might be able to 17 this point and see what the literature says. 18 answer this question. If he can, he can answer it. 18 So that was my intention when I -- any 19 MR. AYLSTOCK: If you understand it, 19 time I've reviewed deposition transcripts from any 20 Doctor. 20 of the experts. 21 21 MR. CURTIS: I don't get "to Q. And I believe you said you reviewed one or segregate" from what? You know, are you asking --22 two reports of Dr. Iakovlev. Correct? 22 A. Correct. 23 MR. THOMAS: I'll start over again. 23 /// 24 24 Q. Do you know what cases they were?

19 (Pages 70 to 73)

Page 76 Page 74 A. I'm not 100 percent sure, but I believe one 1 1 expert reports, I can't remember who was who. 2 of them maybe is Bellew or ... 2 Q. Okay. Would those reports be on the thumb 3 3 Q. Good. Do you recall disagreeing with drive or the jump drive that you've given us? anything that Dr. Iakovlev said in his reports? 4 A. I believe so. I don't know. 4 5 A. Not that I can recall. 5 Q. Did you find yourself disagreeing with what 6 Q. Do you recall disagreeing with anything 6 Dr. Vogel said? 7 that Dr. Iakovlev wrote in his papers that you have? 7 A. Well, I don't remember what -- exactly what he said, but -- and I don't remember which case it A. Again, not that I can recall. 8 8 9 Q. Okay. Have you ever met Dr. Iakovlev? 9 was in reference to. A. No. 10 10 Q. Okay. Q. Have you ever spoken to him on the phone? A. But there were things that I remember 11 11 thinking that it was -- I guess, the best word would 12 12 13 Q. Have you spoken with any other pathologists 13 be "petty." who are looking at these types of issues in this Q. What did you think was petty about 14 14 15 Dr. Vogel's report? 15 litigation? 16 A. Not to my knowledge. 16 A. I can't remember if it was his report or 17 Q. Are you a neuropathologist? 17 not, but I believe it was his report that he talked A. I'm not board certified in neuropathology. about a figure of mine and said something like 18 Q. What is a neuropathologist? "Well, clearly his lack of experience is obvious 19 19 20 A. So the focus of a neuropathologist would 20 because he didn't comment on nerve in this picture." 21 be, I would say, central nervous system issues, 21 Which I found to be so absurd and so petty and so generally, brain and spinal cord, and dealing with 2.2 ridiculous that I actually laughed out loud when I 22 23 both the non-neoplastic and neoplastic entities that 23 read it. occur in that region. 24 Because any time any pathologist puts Page 77 Page 75 1 Some of them also do muscle biopsies any picture in any report, or whatever, in any and evaluate those, or large nerve biopsies and figure in a peer-reviewed article or a figure in a 3 evaluate those for pathology. I mean, that's very 3 text, we don't describe every single element of a neuropathologist-dependent because not all of them picture and what's in there. do that. I would say that's basically what they do. 5 5 It's not a children's coloring book Q. Did you consult with any neuropathologists 6 that I'm, you know, have a line and say, this is the 6 7 in connection with your opinions in this case? 7 hand; this is the arm. A. I didn't consult with any neuropathologists 8 Color the hand blue; color the arm 8 9 9 with regards to this case, no. white. 10 Q. Have you read any expert reports of 10 So I found that that was -- for him to 11 neuropathologists submitted by Ethicon? point that out as evidence of my lack of experience 11 A. I believe so. with regards to nerves, I just -- I found that 12 12 13 Q. Which ones have you read? 13 amusing. 14 A. I don't recall the name. I think it was 14 Q. Anything substantive about his report that Hannes Vogel. 15 you disagreed with, that you recall? 15 Q. The Stanford pathologist? 16 MR. AYLSTOCK: Objection to form. 16 17 We can pull out the report if that's 17 A. I think so. 18 Is he a neuropathologist? 18 really what you're going to do, but this isn't --MR. THOMAS: I don't want to go to 19 Q. Yes, he is. 19 20 A. Yes. Then that's one of the ones that I 20 that. I'm asking what he recalls. 21 21 MR. AYLSTOCK: And, as you know, his can remember. 22 reports are case specific, so I'll remind you we Q. Dr. McClendon? 23 23 have limited time for this general deposition. A. I recall the name.

20 (Pages 74 to 77)

MR. THOMAS: And you're using it right

24

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I've read so many of the defense

Page 78 Page 80 1 sensation that a nerve carries cannot 1 now. 2 2 be determined without identification MR. AYLSTOCK: And you're using it, 3 3 and I'm pointing that out to you -of the sensory receptor that creates 4 4 the signal?") MR. THOMAS: Thank you. 5 MR. AYLSTOCK: -- as a courtesy. 5 A. I would say that sounds biologically 6 MR. THOMAS: Thank you. 6 correct. 7 7 A. So I read his whole report. And, again, I BY MR. THOMAS: don't remember -- I read so many of them, I don't 8 8 Q. I'm not sure of the qualification. Why do 9 remember the details of all of them without them in 9 you say "biologically correct"? front of me. And I don't --A. Because you're talking about a mechanism. 10 10 11 I think because that one comment about 11 So that's a biologic mechanism, and so I would say that sounds biologically correct. 12 the nerve struck me as so funny that I don't 12 remember other specifics about --13 Q. And is it fair to say that you need to 13 MR. AYLSTOCK: And if you'd like, we identify the receptors to conclude that a given 14 14 can get a printout of it and give it to you. nerve fiber will transmit pain signals? 15 15 16 MR. THOMAS: I don't want that, Bryan. 16 A. I don't know if that's true. I'm just asking what he recalls. 17 Q. Do you disagree with it or don't know if 17 18 A. I would say that's what I recall, as I sit 18 it's true? 19 here without it. 19 A. I would say that I would say that more 20 likely than not that that's not necessarily the BY MR. THOMAS: 20 21 21 Q. Are you able to determine from the case. histology section under "Light Microscopy" whether 22 22 Q. Why? nerve twigs that you see are sensory, motor, or 23 A. Because these nerve bundles carry, as I 24 said, both sensory and motor signals. So I don't 24 autonomic? Page 79 Page 81 1 A. Well, most of them have sensory and motor think that you have to say -- I don't think you have 2 functions, by definition. 2 to know the receptor to know for sure what kind of 3 Q. But are you able to discern from your 3 signal it's carrying. review of the slide the extent to which there's 4 Q. Do you agree that not all sensory nerve 5 fibers transmit pain signals? 5 sensory, motor, or autonomic? 6 A. I would say that's correct. 6 A. So, from reviewing just a regular H&E 7 7 Q. Are you suggesting by the reports that slide, there's no way to tell with regards to you've offered in these cases that you're able to 8 sensory and motor. 9 9 Q. Or autonomic? diagnose disease by examining nerve twigs that you 10 A. Right. Autonomic. 10 see in these slides? Q. Is there any stain that's capable of 11 11 MR. AYLSTOCK: Objection to form. differentiating among nerves? THE WITNESS: Could you repeat that? 12 12 A. I don't use those stains on a day-to-day THE REPORTER: Yes. 13 13 14 basis, so that's not something that I did in this 14 (The record was read as requested: 15 litigation or have reviewed, because I don't -- I "Are you suggesting by the reports 15 16 don't do that. that you've offered in these cases 16 17 Q. Do you agree that the type of sensation 17 that you're able to diagnose disease 18 that a nerve carries cannot be determined without 18 by examining nerve twigs that you see 19 identification of the sensory receptor that creates 19 in these slides?") 20 the signal? 20 A. I don't understand that question. 21 21 THE WITNESS: Can you repeat that? BY MR. THOMAS: 22 THE REPORTER: Yes. 22 Q. Okay. Let me ask this question, and ask it 23 the other way. 23 (The record was read as requested: 24 "Do you agree that the type of 24 When you look at these slides, and you

21 (Pages 78 to 81)

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identify what you do, what is your purpose for these cases? What are you trying to do with what you 2 3 reviewed from these slides? 4 MR. AYLSTOCK: Objection to form.

A. I would say my main purpose in reviewing these slides is to correlate my microscopic findings with the clinical indication for the surgical removal of the mesh. And to generate a pathologic differential diagnosis with regards to what the clinical indication was for the surgery and with what I'm seeing histologically and to rule out other causes that could have influenced the patient's infections or pain or dyspareunia, or whatever -erosion, whatever else could have influenced that.

As a pathologist, that would be my main goal as to both correlate the findings that I'm seeing with what's described in the medical literature, as well as rule out other pathologic causes for those clinical symptoms and signs.

BY MR. THOMAS:

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21 Q. What does the term "correlate" mean to you?

A. "Correlate" would be to take one set of 22

23 findings with another set of findings and relate

them to one another, I would say, would be a general

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definition that I would use.

- 2 Q. And in your work in this case, one set of 3 findings is your findings from your review of the histologic slides. Correct?
- 5 A. That's correct.
- 6 Q. And what is the other set of findings that you're correlating with in order to give your 8 opinion in this case?
- 9 A. Either the surgeon's findings operatively 10 or the patient's symptoms or signs that have been described. 11
- 12 Q. And as a result of that, you then make a 13 differential diagnosis as a pathologist as to the likely cause of the symptomology. Did I understand 14 15 that correctly?
 - A. Yes. I would say that's fair.
- 17 Q. So you have control over the information 18 that you review. You have a limited number of 19 slides and you can look at it, and that's your set of findings. Correct? 20
- 21 A. Yes.

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22 MR. AYLSTOCK: Objection to form.

23 BY MR. THOMAS:

Q. What do you do to make sure that you have

all of the information from the rest of the findings

Page 84

Page 85

2 in order to make the appropriate differential 3

diagnosis?

4 A. Well, I mean, in addition to my slides, I 5 would -- I'm not just reviewing them in a vacuum.

Q. I understand that.

A. So I review -- I ask for a full set of the medical records, and in some cases have asked if a deposition transcript for the plaintiff has been --

is available if I feel like there is any sort of 10

11 inconsistency in the medical record, or something

12 that isn't correlating with what the surgeon is 13 reporting. Then I will ask for additional material.

But in these cases at least, I had extensive medical records that were just thousands and thousands of pages, so --

And it seemed to me from my review to be pretty complete, so as I went through them, for the most part, I think there may have been a couple cases where I specifically said, "Do you have this report?"

2.2 Or, "I don't have this operative

23 report. Did you not send that?" 24

And, "Oh, well, actually, no. It's in

this file folder, or maybe I missed it or

2 something." 3 So there were times when I would call 4 and say, "You know, I can't find this. Did you 5 include this?"

Or, "You know, does this plaintiff have a deposition already? I'd like to review the deposition in this case."

Q. And all the information that you received for each of these six cases is on that flash drive that you supplied to us. Correct? 11

A. Yes.

MR. AYLSTOCK: Just so -- I think --MR. THOMAS: Subject to the objections that you made.

MR. AYLSTOCK: Well, that, and I think you also have some Dropboxes that might be completely coextensive or not, but some links were provided last evening.

MR. THOMAS: Thank you for the timely production of the documents.

22 MR. AYLSTOCK: Same goes for you in 23 every other deposition that I've been in. But I appreciate the compliment.

22 (Pages 82 to 85)

Page 88 Page 86 1 BY MR. THOMAS: medical records, depositions or other information, 2 Q. So what do you do to satisfy yourself that 2 related to these individual plaintiffs for the 3 you have a complete set of information with which to formation of your report. do your differential diagnosis? 4 A. I don't know what kind of help you're 5 MR. AYLSTOCK: Objection to form. 5 referring to. 6 A. Well, I'm a little uncomfortable by the 6 Q. Well, you just described to me quite a 7 7 volume of information. Did you do it all yourself? verbiage of that question. 8 8 But -- I don't know what I do to A. I did it all myself. 9 satisfy myself that I'm okay with the information, 9 Q. Okay. And for these six cases, about how but I basically review all of the -- once I have many hours have you spent working on these cases? 10 10 reviewed all of the data, all of the medical 11 A. Many, many, many hours. I don't have a records, if I feel like I have a complete picture of 12 number off the top of my head. 12 what was going on clinically, then that's what I'm 13 Q. Are your billing records included in what you've produced to us? looking for. 14 14 15 BY MR. THOMAS: 15 A. I'm not aware if they are or not. 16 O. First of all, I don't mean to insinuate 16 Q. I know --17 anything by my question. All I'm trying to 17 MR. AYLSTOCK: If they're not, I'll understand is, at some point you become satisfied get them to you, Dave. 18 18 that you have what information you need to make a 19 19 MR. THOMAS: Okay. 20 differential diagnosis. 20 BY MR. THOMAS: 21 And all I want to understand is how you 21 Q. How do you keep your time? 22 A. I have on my computer Word documents for 22 go through that process to make sure you understand that you have what you need in order to make an 23 each of the cases. And when I'm reviewing appropriate differential diagnosis. 24 something, I have it on my drive -- my Google Drive, Page 87 Page 89 1 A. Okay. so if I'm in a library or wherever, at home, I look at what time I start and then when I'm done, I add 2 Q. That's all I intend with the question. 3 A. Okay. 3 that time. 4 MR. AYLSTOCK: And I think he's 4 Q. Okay. So real time as you're doing work, answered that extensively in what he's already said, you update your individual time sheet for each case. 5 5 6 Is that fair? 6 7 MR. THOMAS: All I want to do is make 7 A. Constantly, yes. 8 8 sure he didn't think I was disparaging him in any Q. All right. And you have on your computer 9 9 right now your up-to-date time that you spent on 10 A. Oh, no. 10 each of these six cases? 11 A. Yes. 11 BY MR. THOMAS: Q. Do you rely on counsel to supply you with 12 12 Q. Do you maintain any other separate bill in the information that you need? addition to the six cases for which you're appearing 13 13 14 MR. AYLSTOCK: With regard to the 14 here today for any general work you're doing on the medical --15 file? 15 BY MR. THOMAS: 16 16 A. I think I have in the past, yes. 17 Q. With respect to the individual plaintiffs. 17 Q. Okay. So if I wanted to review the time 18 A. Well, yes. I don't contact the -- their --18 that you spent on this matter, this litigation, it it's not like I ask for a list of their physicians would be these six individual times, and then a 19 19 and contact the offices directly. general file or a general bill that would provide 20 20 21 21 time that you spent there. Fair? Q. Okay. 22 A. I rely on them to be responsive when I ask 22 A. Yes. But having said that, I would also 23 for medical records and further information. say that within the specific cases, there are times 23

23 (Pages 86 to 89)

when I'm reviewing general information that relates

Q. Did you have any help in reviewing the

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Page 92 Page 90 1 to that particular case. MR. AYLSTOCK: Objection to form. 2 Q. Absolutely understand that. 2 A. I think I would leave as far as the actual 3 A. Okay. 3 material that needs to be used for these surgical Q. Is there any other category of time for 4 4 procedures more to a surgeon. 5 which you submit bills to the plaintiffs? 5 I would say as a pathologist with 6 A. I don't think there's any other category of 6 regards to what type of material they should use --7 7 whether it's synthetic, absorbable, nonabsorbable, time that I submitted a bill. 8 biologic -- I would say I don't really have a 8 Q. So if I get the bills for the six cases and 9 the general file, I'll have a complete set of the 9 general opinion about what is best surgically to use bills and time that you've submitted to the on these patients. 10 10 BY MR. THOMAS: 11 plaintiffs in the case? 11 12 A. Yes. 12 Q. Does that apply to both stress urinary 13 incontinence and pelvic organ prolapse? Q. When you record your time as you do it, you 13 record it by the amount of time you spent. Correct? A. I would say yes, in general. 14 14 15 Q. Just so I can shut this down: 15 A. Correct. 16 Q. Do you describe what you were doing? 16 Is it fair to understand that you will 17 17 not give any opinions at the trial in this case about A. Yes. the appropriate mesh material for the treatment of 18 Q. And what is your purpose when you describe 18 what you're doing? What are you trying to say? stress urinary incontinence or pelvic organ prolapse? 19 19 A. For my own recollection, mainly. It hasn't 20 MR. CURTIS: Object to the form of the 20 21 come up yet, maybe because it's not case specific. 21 question. That's not what you asked him before. 22 22 But a lot of times I will be asked in MR. THOMAS: Sure, it is. 23 depositions in the past, "When were you first 23 MR. CURTIS: You're talking about contacted by the attorneys?" 24 absorbable mesh and then you generalized and Page 91 Page 93 1 And I'll go to my invoice and say, 1 expanded the scope of it. 2 2 this -- on such-and-such day, I had a ten-minute MR. THOMAS: He just -- I don't have 3 conversation with so-and-so. 3 real time. I'm sorry. 4 And then "Well, when did you receive 4 THE REPORTER: Do you want his last 5 5 the slides?" answer? 6 6 "Well, on such-and-such a day I MR. THOMAS: I do. 7 received the slides and did an inventory." 7 "I think I would leave as far as the So I do it for completeness' sake and 8 8 actual material that needs to be used for these 9 surgical procedures more to a surgeon. 9 to be able to give a good timeline if I'm asked. 10 Q. Okay. So the purpose of your time charges 10 "I would say as a pathologist with is not only to count your time but also to give you regards to what type of material they should use, 11 11 chronology so that you can recall what work you did whether it's synthetic, absorbable, nonabsorbable, 12 12 at what time? 13 biologic, I would say I don't really have a general 13 14 A. I'd say that's correct. 14 opinion about what is best surgically to use on these 15 Q. In Exhibit No. 3, you discuss generally the 15 patients." concept or the idea of absorbable mesh on the first 16 BY MR. THOMAS: 16 17 17 couple pages --Q. And my question is, is it fair to 18 A. Okay. 18 understand that you're not going to give an opinion at trial in these cases about what material 19 Q. -- do you remember that? Under "Comment" 19 20 20 manufacturers should use in mesh for the treatment on page 2. 21 A. Yes. 21 of stress urinary incontinence or pelvic organ Q. Do you have any opinions that absorbable 22 22 prolapse in women? mesh should be used for the treatment of stress 23 MR. AYLSTOCK: Do you mean as opposed urinary incontinence? 24 to the materials implanted in these women in the

24 (Pages 90 to 93)

Page 94 Page 96 Ethicon mesh? seen pathologically in this specimen, if there was 1 1 2 MR. THOMAS: That's what I'm trying to 2 another specimen type or another mesh type that was 3 understand, Bryan. He told me no. known to have these -- these characteristics that 4 would not have given you the same -- that would 4 MR. AYLSTOCK: I'm trying to 5 5 understand too. I'm not telling him not to answer, likely not have given you the same pathologic 6 I'm just trying to understand what you're getting 6 response, would I feel, as a pathologist, that this 7 7 type of material was better than another type of material? I would just answer any question as it's 8 8 A. So, I guess, to clarify, my opinion would 9 be, as a pathologist, I'm not going to tell a 9 posed to me. surgeon, for this particular patient you need to use 10 I don't know -- you know, when I'm 10 11 11 this material; for that patient you should use that asked, am I going to give this type of opinion in a 12 court, I don't -- all I can say is I'm going to material. 12 13 13 answer whatever questions I'm allowed to answer in a Oh, you need to make sure and go suburethrally with this type of material; go through 14 court, based on -- if I feel, based on my 14 15 information that I have in the medical literature 15 the obturator foramen with this type of material. 16 That's not my goal or purview, I 16 and what I've reviewed, that I can answer the 17 guess, as a pathologist. Mine would be to evaluate 17 question. the types of material that I see pathologically and 18 BY MR. THOMAS: 18 to correlate whatever histopathologic responses I'm 19 Q. For any of the six cases that you've 19 seeing to whatever material with what's going on 20 reviewed and that we're here for the next two days, 20 clinically. 21 is there a different material that you would 21 2.2 BY MR. THOMAS: 22 advocate for use of the treatment of stress urinary 23 Q. Do you have an opinion to offer in this incontinence that would not produce the symptoms 24 case that the manufacturers should have used 24 that these women experienced? Page 95 Page 97 different material in any of the meshes you've 1 A. Again, I don't -- I didn't discuss any use 2 analyzed? 2 of a material that should have been used in contrast 3 3 to what was used. A. I don't know about the specific types of material that was available to them. I didn't have 4 Q. Okay. And, as you sit here today, you 5 5 those internal documents that I recall that don't have any opinions in that regard? 6 6 specifically mention the different types of material A. I haven't been asked any specific questions 7 7 regarding that, and I haven't reviewed material with that they could have used or how they advertised 8 8 those materials. I don't have any of that respect to that subject. 9 9 information. Q. Okay. Do you agree that it's a normal 10 10 histological finding to see nerve branches in all O. I understand that. 11 types of surgically removed tissues? Is it fair to understand that you're 11 12 MR. AYLSTOCK: Objection to form. 12 not prepared at trial to offer an opinion that Ethicon should have used a particular material in 13 13 A. Could you repeat that, please? 14 the -- in its meshes used for the treatment of stress 14 BY MR. THOMAS: urinary incontinence or pelvic organ prolapse? Q. Do you agree that it is a normal 15 15 MR. AYLSTOCK: Objection to form. 16 histological finding to see nerve branches in all 16 17 MR. CURTIS: Yes. 17 types of surgically removed tissues? 18 A. Well, you know, as a pathologist, the way I 18 A. No. 19 19 deal with -- or I guess, as any physician, the way I Q. Why don't you agree with that? 20 20 deal with questions that are medically related would A. Because it's not correct; that's why. be to answer the question that is posed to me. 21 Q. Okay. Do you agree that surgical 21 22 22 So, I guess, with respect to your interruption of the microscopic nerve supply to all

25 (Pages 94 to 97)

types of soft tissues in the human anatomy, whether

in the presence of artificial materials or not, is

question, if I was asked at trial as a pathologist

and in my opinion with the types of responses I've

Page 98 Page 100 always accompanied by fibrosis and the repair of 1 Neutrophils have different cytokines 2 blood vessels, nerve fibers, and other vital 2 that can be secreted, and those can actually 3 connective tissues? 3 interact with the sensory receptors on the nerve 4 4 MR. AYLSTOCK: Objection to form. itself which can give you a different quality of A. I would not say always with respect to any 5 5 pain. 6 physiologic property in the body. But I would say 6 So when I say it's complex, it's 7 that, more likely than not, different degrees of 7 because there's different types of pain and there's 8 stromal reaction occur following those types of 8 different types of inflammatory reactions that can 9 surgical procedures. 9 produce those different types of pain. 10 BY MR. THOMAS: 10 BY MR. THOMAS: Q. Okay. What is the mechanism between, you 11 11 O. Finished? know, inflammation that you describe in your reports 12 12 A. Um-hmm. 13 and pain? 13 Q. Thank you. 14 A. I would say the mechanism with regards to 14 MR. THOMAS: Let's go back to his 15 inflammation and pain is something that is extremely 15 prior answer, please. complex and not something that I, as a pathologist 16 16 (Pause in proceedings.) 17 17 generally would report or describe. BY MR. THOMAS: 18 Simply correlating the fact that 18 Q. I understood your prior answer to be that generally, you -- as a pathologist, you would not inflammation is known to be associated with pain and 19 19 20 reporting whether that inflammation is present or 20 generally describe the mechanism of pain -not, but not with regards to the receptors and the 21 mechanism between inflammation and pain. Is that 21 cytokines that are produced and the feedback loops 2.2 fair? 22 23 and the cycles. That's not something that I have 23 A. In a report. 24 specifically reviewed in preparation for this. 24 Q. Okay. Is there a discipline within -- in Page 99 Page 101 1 medicine that is the appropriate discipline to Q. Is it fair to understand that you can't tell me today the mechanism between inflammation and 2 discuss the specifics of the mechanism of 3 3 inflammation and pain. pain? 4 4 MR. AYLSTOCK: Objection to form. MR. AYLSTOCK: Objection to form. 5 A. No. I'm not saying -- what I said is that 5 A. I don't think that there's a specific that mechanism is complex. And that --6 discipline or specialty where that's their focus. б 7 7 BY MR. THOMAS: BY MR. THOMAS: 8 8 Q. Is there a discipline within medicine that Q. Can you explain it to me? 9 MR. AYLSTOCK: In how many hours? 9 has its focus that is more specialized than your own 10 A. Well, it's not -- it's that there --10 in this area? 11 Inflammation, depending on the 11 MR. AYLSTOCK: In what area? 12 inflammatory cell, whether it's a macrophage or a 12 BY MR. THOMAS: neutrophil, secretes different kinds of interlukens 13 13 O. In the mechanism between inflammation and 14 and cytokines, and those can cause other cells to 14 pain. migrate to the area. Those can induce fibroblasts 15 THE WITNESS: Can you repeat that? proliferation, which in a more end stage, may entrap 16 MR. THOMAS: I'll just ask it again. 16 a nerve and cause pain that way. 17 17 THE WITNESS: Okay. 18 Alternatively, if you have an 18 BY MR. THOMAS: eosinophil, which is another type of inflammatory Q. Is there an area of medicine that is more 19 19 20 cell, that secretes, say, Interleukin-5 or specialized than your areas of expertise to explain 21 Interleukin-6 that can cause vasodilation of the 21 the mechanism between inflammation and pain? vessels and cause edema to rush out into the tissue 22 A. Well, I don't know if it would be in medicine or in biology. Because everything that I 23 which gives you a pressure sensation which is 24 painful. described is, you know, biological processes, which

26 (Pages 98 to 101)

Page 102 Page 104 1 can occur in humans and animals. Q. So you chose not to deal with it. 1 2 So I would say that it's not 2 A. No. I dealt with in the sense of I read it 3 necessarily in human medicine where any specialties 3 and I evaluated it. But from my recollection, there focus on specifically inflammation and pain and 4 were a lot of problems with it. 4 5 those mechanisms that are causing them. 5 Q. Okay. Do you remember generally what the 6 Q. Is it your testimony that you're as 6 problems were? 7 7 qualified in your discipline as any other discipline A. I think that it was -- I think it was a retrospective study, and I didn't feel like they -to offer opinions of the mechanism of inflammation 8 8 9 and pain? 9 it didn't seem like they could confidentially rule 10 MR. AYLSTOCK: Objection to form. out that the patients that they were saying didn't 10 A. I don't know. 11 11 have pain didn't actually have pain, because they BY MR. THOMAS: were reviewing the records -- the medical records 12 12 13 Q. Okay. In your research in this case, did 13 only, and there was no attempt to actually discuss you make any effort to determine the existence of these patients' reported pain or not, or had --14 14 any studies that looked at the role of inflammation 15 I should say had pain and just weren't 15 16 in mesh explants for patients who had mesh removed 16 reporting it because maybe they were so focused on 17 because of pain, as opposed to mesh removed for 17 their -- I think, it was urinary symptoms, which was reasons other than pain? the other group that had, like, urinary symptoms and 18 18 THE WITNESS: Can you repeat that? supposedly not pain. 19 19 20 THE REPORTER: Yes. 20 But I mean, I know patients in general 21 21 will go to a physician and have several problems and (The record was read as requested: 22 "In your research in this case, did 22 report really one of them, and they may have another 23 you make any effort to determine the 23 problem. But unless they are specifically asked may 24 existence of any studies that looked not report it. So that was one issue with the Page 103 Page 105 1 at the role of inflammation in mesh 1 study. 2 2 explants for patients who had mesh Another one is they didn't really 3 removed because of pain as opposed to 3 characterize the type of fibrosis or inflammation. 4 mesh removed for reasons other than They talked about grading it, like 0 to 3 or 0 to 2, 5 5 pain?") I don't -- I know there were several different 6 MR. CURTIS: Object to the form of the 6 categories. 7 7 of the question. But they didn't really describe that 8 8 A. Yes. I did. in detail, like -- and the association with the 9 9 mesh, whether that was inflammation around the mesh BY MR. THOMAS: 10 Q. Okay. Did you find any studies? 10 or it was away from the mesh. 11 A. Yeah. There was a study that -- there was 11 And the reason that's important is one study in particular that I reviewed. I can't 12 because the specimens that would have been reviewed remember the author's last name. I think it might 13 that were from around the bladder or around the 13 have been Hill, or ... 14 14 urethra, that tissue, in general, can have some 15 degree of inflammation that maybe would just be Q. Yep. 16 16 normal for that region, or could be normal for that That's not on your reliance list. Is 17 there a reason why? 17 region. 18 A. I tried to include everything on my 18 So if someone's not having pain, and 19 reliance list that I had reviewed. 19 they're saying, Oh, well, look, the patients that 20 had no pain had just as much inflammation as the You know, again, not everything that's 20 21 on there -- or not everything that is -- forms my 21 patients that had pain. opinions is on there, it just is the nature of my 22 Well, you're not taking into account 22 23 the fact that the patients that didn't have pain, profession. But on this particular study, I thought that it was a really bad study. their specimens were from areas that normally would

27 (Pages 102 to 105)

Page 108 Page 106 percentage of complications -- the percentage of have had more inflammatory cells, which is skewing the data. That was another problem that I had with 2 2 patients who receive mesh for stress urinary 3 3 incontinence that experience mesh for -- pain for 4 4 longer than six months? Just off the top of my head, those are 5 5 the ones that I can remember. MR. AYLSTOCK: Objection to form. 6 Q. Sure. Any other studies that you looked at 6 A. Again, I think that that's a very confusing 7 7 analyzing the role of inflammation in meshes question for me. explanted for reasons of pain and meshes explanted 8 8 I don't really understand if you're 9 for non-pain reasons that you've looked at but 9 asking from post-op day number one until post-op day haven't included in your report or your reliance 10 number 180, or if they have six months of pain that 10 may be on and off over the course of several years? 11 list? 11 12 I guess I just don't understand. 12 A. There may have been others. I just can't remember the specifics of the authors or the actual 13 BY MR. THOMAS: 13 Q. That's fine. 14 14 names. 15 15 Q. You agree that less than 5 percent of You do agree that for more than patients undergoing explantation of SUI slings do so 16 90 percent of the patients who receive mesh for the 16 for long-term pain, don't you? 17 treatment of stress urinary incontinence they have no 17 MR. AYLSTOCK: Objection to form. 18 complaints of pain after six months? 18 MR. AYLSTOCK: Objection to form. A. Would you repeat that? 19 19 20 BY MR. THOMAS: 20 What kind of pain? 21 Q. Do you agree of the patients who are 21 A. I -- I don't know. I don't understand. undergoing -- well, strike that. 22 BY MR. THOMAS: 22 23 (Pause in proceedings.) 23 Q. Have you studied the issue of pain as a 24 24 complication in the use of mesh for the treatment of /// Page 107 Page 109 1 BY MR. THOMAS: 1 stress urinary incontinence? 2 MR. AYLSTOCK: Objection. Asked and 2 Q. For patients who receive mesh implants for 3 treatment of SUI, do you know what percentage 3 answered. He's already -experience complications of pain more than six 4 MR. THOMAS: Please let me ask the 5 5 months? questions completely, Bryan. 6 6 MR. AYLSTOCK: I objected to it. MR. AYLSTOCK: Objection to form. 7 7 A. I guess I don't understand if you're asking A. Could you repeat that? 8 8 pain greater than six months in duration or --BY MR. THOMAS: 9 BY MR. THOMAS: 9 Q. Have you studied the extent to which pain 10 Q. Yes. is a complication in patients who receive mesh for A. -- after six months. the treatment of stress urinary incontinence? 11 11 Q. Six months greater in duration. 12 A. Yes. I've reviewed the different 12 MR. AYLSTOCK: From the time of the 13 complications from mesh. 13 original implant? 14 Q. What are the rates of complications for 14 15 MR. THOMAS: Yes. pain over six months in women who've received mesh for the treatment of stress urinary incontinence? 16 16 A. I don't understand. 17 MR. AYLSTOCK: Objection to form. 17 So starting at six months and then 18 have it for six months? 18 A. I don't know if you're talking about -- I don't specifically remember reading about studies 19 BY MR. THOMAS: 19 20 that have looked at patients that have had six 20 21 21 months of continual pain from the time of their At the time of implant, pain persists from date of implant to longer than six months. 22 surgery until six months post-op. I don't recall 22 23 reading that data. 23 24 Q. Are you aware of the number -- the 24 ///

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Page 110 Page 112 BY MR. THOMAS: 1 1 discuss that issue specifically insofar as relates to the replacement of mesh for the treatment of stress 2 Q. Okay. And to the extent that you looked at 2 3 studies in that regard, they'd be on Exhibit 2? 3 urinary incontinence? 4 4 A. They should be. MR. AYLSTOCK: Objection to form. 5 Q. Okay. Do all women who receive mesh for 5 A. I would have to go through my articles. I 6 the treatment of stress urinary incontinence have an 6 don't remember the specifics of your question in 7 inflammatory response to that mesh? 7 relationship to one particular article, but I would 8 8 MR. AYLSTOCK: Objection to form. have to look at my different articles that I've 9 A. I would say all women that have synthetic 9 reviewed. mesh implanted would have an inflammatory response 10 10 BY MR. THOMAS: 11 to mesh. 11 Q. Okay. Fair to understand you don't recall 12 BY MR. THOMAS: 12 13 13 A. I can't recall any of the specifics now, Q. Why do some women experience pain and 14 others do not? 14 no. A. I would say every human is different and 15 15 Q. Is it true that chronic inflammation is a 16 there's a reason why complication rates aren't 16 finding seen in the vaginal tissues of women 0 percent verses 100 percent. It's because every 17 suffering from stress urinary incontinence, pelvic 17 body is different, every body has different organ prolapse, and other pelvic floor dysfunction 18 18 even before mesh is implanted? responses, different genetics. 19 19 20 Maybe some people have a higher 20 MR. AYLSTOCK: Objection to form. 21 genetic predisposition to having a particular type 21 A. I don't think that that's necessarily true, of cytokine that's released. 22 2.2 no. 23 Maybe some patients have other medical 23 BY MR. THOMAS: issues that would influence pain versus not pain. 24 Q. Okay. So --Page 111 Page 113 That doesn't take away from the fact that they're 1 A. And it depends on the anatomic location. 2 experiencing pain from a mesh. 2 Q. So if a woman has SUI, stress urinary 3 So all of these factors influence 3 incontinence, you would not necessarily expect to whether someone has a particular type of see inflammation if you did histology in the area of 5 5 symptomatology following any type of surgery. the SUI? 6 Q. Did you review any studies analyzing the 6 A. In what area of the SUI? 7 question why some women who receive mesh for the 7 In the urethra? in the bladder? in the 8 treatment of SUI, and who have inflammation, have 8 vagina? 9 pain and others do not? 9 There's a whole -- it's a completely 10 A. Could you repeat that? 10 different histology for all these locations. 11 Q. Did you review any studies or papers of any Q. Are you saying there won't be any 11 kind which analyzed the question of why some women 12 inflammation in some of these people who have these 12 who receive mesh for the treatment of SUI experience pelvic floor disorders? 13 13 14 pain and others do not? 14 A. Yeah. I would say if you took a vaginal 15 A. Well, the first time you said biopsy in someone with SUI, I don't see why you would have inflammation. "inflammation". 16 16 17 Q. What did I say the second time? 17 Q. Okay. 18 A. You didn't say "inflammation" the second 18 A. If it wasn't otherwise inflamed by some 19 19 other reason. time. 20 Q. Well, let me start over again. 20 Q. Do you agree with this statement: 21 What I'm trying to understand, Doctor, 21 "At present, general human tissue very simply: You gave me a descriptive answer about 22 interactions with the mesh are known, but we have an 22 why some people experience pain and others don't. incomplete understanding of interactions specific to 23 24 Are you aware of any papers that a mesh material and design as well as the

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Page 114 Page 116 pathophysiology of any complications"? 1 amount of time, it would degrade. But I -- it would 1 A. I don't understand that question. 2 2 be something that you would have to evaluate 3 MR. AYLSTOCK: Objection to form. 3 microscopically. A. Or that statement. That seems very 4 4 MR. THOMAS: Let's go off the record 5 convoluted to me. 5 for a second. 6 BY MR. THOMAS: 6 (Recess from 10:42 a.m. to 10:51 a.m.) 7 7 BY MR. THOMAS: O. Okav. 8 A. I'm not sure who wrote it for you but could 8 Q. Can you approximate how much time you've 9 you reread it. 9 spent working on this litigation from the time you Q. I didn't write it for me. But nobody wrote were retained till now? 10 10 11 it for me. 11 A. Maybe -- I would say approximately 200 hours. Probably not -- maybe not that much. I 12 "At present, general human tissue 12 interactions with the mesh are known, but we have an don't know. 160 hours. 13 13 incomplete understanding of interactions specific to Q. And that would be for the six cases, as 14 14 a mesh material and design, as well as the well as the general file for which you've billed 15 16 pathophysiology of any complications." 16 time? 17 A. I would say none of these processes are 17 A. Correct. 18 completely known 100 percent. There's always things 18 Q. All right. And you charge \$500 for your that are discovered about the specific mechanisms of 19 19 time? all these interactions. But that doesn't take away 20 20 A. Yes. 21 from the fact that we know a significant amount --21 Q. And have you submitted bills yet? at least enough to know how certain material, like 2.2 A. Some. 22 23 mesh, would interact in a patient's body. 23 Q. Have you been paid? Q. Do you agree with this statement: 24 24 A. Some. Page 115 Page 117 1 1 "That the question of whether MR. THOMAS: Pay his bills, Bryan. polypropylene degrades in vivo has not been fully 2 MR. AYLSTOCK: You know, you keep me 3 resolved despite decades of use"? 3 busy. 4 MR. AYLSTOCK: Objection to form. 4 BY MR. THOMAS: 5 5 Q. And when -- what's your best recollection A. Repeat that. of when you were hired in this case? 6 BY MR. THOMAS: 6 7 7 Q. The question of whether polypropylene A. I think there were some initial contact in 8 8 degrades in vivo has not been fully resolved despite January of this year, but I didn't receive slides or 9 9 decades of use. anything until well after that. 10 MR. AYLSTOCK: Same objection. 10 Because I know my reports were due in early May, and maybe I had slides for over a month 11 A. The polypropylene doesn't completely 11 12 dissolve? 12 before that or something. BY MR. THOMAS: Q. When did you begin your general literature 13 13 14 14 review? Q. Do you agree with the statement as I've read it? 15 A. Probably in February, I would imagine. 15 January, February. 16 A. Read it again. 16 17 Q. The question of whether polypropylene 17 Q. That would be reflected in your time 18 degrades in vivo has not been fully resolved despite 18 charges? 19 decades of use. 19 A. It should be. 20 MR. AYLSTOCK: Same objection. 20 Q. Do you have privileges at hospitals now? 21 A. I guess I don't know, because I would say 21 A. Yes. it depends on the time. Because if it's -- maybe 22 22 Q. And which hospitals do you have privileges not fully with respect to maybe everyone, but I 23 now? would say more likely than not after a significant 24 A. Let's see. St. Davids Medical Center.

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Page 118 Page 120 1 Q. St. Davids? work that I'm doing as an expert witness that I have 2 A. Yes. 2 felt the need to go to the medical staff and say 3 Seton Medical Center. 3 this has to never be used again. 4 O. Seton? 4 BY MR. THOMAS: 5 A. S-e-t-o-n. 5 Q. I need to ask the question a little more 6 It's all in the second paragraph of 6 specifically. 7 7 A. Okay. my ... 8 Q. It sure is. Q. Is it fair to understand that nothing in 8 9 Dell Children's Medical Center? 9 the work that you've done has caused you to believe 10 A. Um-hmm. that the use of Prolene sutures at the hospitals 10 where you have privileges creates a danger in the 11 O. Arise Austin Medical Center? 11 people that receive those Prolene sutures? 12 A. Arise (pronouncing), yeah. 12 13 Q. Westlake Medical Center? 13 MR. AYLSTOCK: Objection to form. A. Yes. 14 A. I would say from my standpoint, that's 14 15 Q. Resolute Health Hospital? 15 correct. 16 A. Right. Seton Northwest. 16 BY MR. THOMAS: 17 Q. As a result of your work in this case, have 17 Q. Is it fair to understand that nothing that you developed any concerns medically about the safe 18 18 you've done in the work you've done in this case caused you to believe that the use of use of Prolene polypropylene in patients? 19 19 MR. AYLSTOCK: Objection to form. 20 Prolene polypropylene in the mesh used in the 20 21 A. I would say not from a pathologist's 21 treatment of stress urinary incontinence creates a 22 standpoint in my -- in my perspective, I guess, or danger to any of the women that received those 2.2 23 from my perspective. 23 meshes at the hospitals where you have privileges? 24 24 MR. AYLSTOCK: Let me object to the /// Page 119 Page 121 1 BY MR. THOMAS: word "danger." I don't know what you mean by that. 2 Q. As a doctor who has medical privileges at 2 A. Well, again, as I said, there's nothing 3 the doctors -- at the hospitals that you've 3 that I would say is life threatening that would identified on your report, have you developed any necessitate me as a pathologist, in my role at the hospitals, going to the medical staff to ensure that 5 concern about the safe use of Prolene polypropylene 5 in patients of those hospitals? 6 something is not used. 6 7 7 A. Well, I would say that's not really --BY MR. THOMAS: 8 there is nothing that I have identified that I find Q. Do you find from your work in this case to be influencing mortality or something that would 9 that Prolene polypropylene and the meshes used for 10 be a significant alarm that I would raise with the 10 the treatment of stress urinary incontinence 11 medical staff. 11 manufactured by Ethicon create an unreasonable risk 12 of danger to women that receive them in the 12 Q. If you had identified any concern from your work in this case that you believe that 13 hospitals where you have privileges? 13 14 PROLENE Polypropylene could not safely be used in 14 MR. AYLSTOCK: Objection to form. 15 patients at these hospitals, you would tell the 15 THE WITNESS: Could you repeat that? 16 medical staff, wouldn't you? (The record was read as requested: 16 MR. AYLSTOCK: Let me object to the 17 17 "Do you find from your work in this 18 form. 18 case that Prolene polypropylene and the meshes used for the treatment of 19 As you know, Dave, a lot of this is 19 20 off the market, so your question is entirely too 20 stress urinary incontinence 21 manufactured by Ethicon create an 21 broad. 22 22 unreasonable risk of danger to women A. Again, I -- from what I have experienced in that receive them in the hospitals my practice, there is nothing that I am seeing in my 23 practice that I guess would relate to the current 24 where you have privileges?")

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Page 122 Page 124 1 MR. AYLSTOCK: Same objection. preoperative visits. 2 At what point in time? With what 2 BY MR. THOMAS: 3 3 labels affixed? It's entirely too vague. Q. Fair to conclude, though, that you have not 4 4 A. I guess I don't really -- I don't really had conversations with anybody on the medical staffs of any of the hospitals where you have privileges 5 understand the question. 5 6 BY MR. THOMAS: 6 about any risks associated with the TVT devices for 7 7 the treatment of stress urinary incontinence. Q. Is it true that you've not told anybody at the hospitals where you work that they should stop 8 Correct? 8 9 implanting Ethicon TVT meshes for the treatment of 9 MR. AYLSTOCK: Objection to form. stress urinary incontinence? True? 10 A. I have not had any discussions with the 10 11 medical staff about TVT or any sort of 11 A. That's correct. 12 polypropylene-containing mesh. 12 Q. And the reason why you haven't done that is 13 because you don't see that any of the Ethicon meshes 13 MR. THOMAS: Okay. I think we're used for the treatment of stress urinary 14 ready to go to individual cases. 14 incontinence present an unreasonable risk of harm to 15 MR. AYLSTOCK: Okay. 16 the women that receive them. Correct? 16 MR. THOMAS: Do you want to take a 17 MR. AYLSTOCK: Objection to form. 17 break first? 18 A. No. I would say that's kind of an 18 MR. AYLSTOCK: Yeah. Let's conclude oversimplification of my role as a pathologist in 19 19 the general deposition. the hospital. 20 MR. THOMAS: And just for the record, 20 21 21 we have an agreement that background questions and My role would not be to alert the 22 medical staff to stop using a particular type of 22 questions that we've asked in this general medical device without knowing if there are risks 23 deposition will be applied to the individual cases that are now discussed with these patients may be so that we don't have to reask or redo certain Page 123 Page 125 what I consider to be dangerous, maybe a woman now 1 things. after discussing those known risks with her 2 2 MR. AYLSTOCK: Yeah. In fact, we'll 3 physician wouldn't consider dangerous. 3 insist that it not be reasked or redone. 4 4 I would say my role as a pathologist MR. THOMAS: Right. 5 would be that if I found that these were associated 5 MR. AYLSTOCK: Anything that was with a high risk of developing leukemia, and it's 6 covered in the general portions of this report. 6 7 7 MR. THOMAS: But there will be times not something that's reported in the medical 8 8 literature, and it's a product that's still being obviously where we will have to ask predicate 9 9 used. questions in order to form an appropriate question, 10 Something like that at that point, I 10 and we'll deal with those as they arise. would go and sound the alarm to the medical staff 11 MR. AYLSTOCK: Mr. Curtis will deal 11 that, Hey, this is something that is not described 12 12 with them. in their handouts. It's not something that's being 13 MR. CURTIS: Well, the understanding 13 14 discussed by the company. You haven't had the 14 is, the time we've just spent is on the general 15 opportunity to discuss this risk with the patient. 15 issues, and will not be repeated in the six But my experience as a pathologist from reviewing X 16 individual cases. 16 number of patients is that this is causing leukemia 17 17 MR. THOMAS: Well, as best we can, 18 so you need to be aware of that. 18 unless we have to relate it to a question in order 19 There's no scenario like that that has 19 to make the question clear. And we'll figure that occurred that I have felt the need to alert the 20 20 out. I don't think we'll have any problem with medical staff, because the risk/benefit ratio of any 21 21 that. procedure, whether I deem it dangerous or not, is 22 MR. CURTIS: I don't think we will 22 not my responsibility given that that's what the 23 either. surgeon discusses with the patients in their 24 What's the time?

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	Page 126	Page 128
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	THE REPORTER: The total time is 2 hours, 36 minutes. MR. CURTIS: Thank you. (Proceedings concluded at 11:03 a.m.)	ACKNOWLEDGMENT OF DEPONENT J
	Page 127	Page 129
1 2 3	ERRATA	IN THE UNITED STATES DISTRICT COURT FOR THE SOUTHERN DISTRICT OF WEST VIRGINIA CHARLESTON DIVISION THE SOUTHERN DISTRICT OF WEST VIRGINIA THE SOUTHERN DISTRICT OF WEST VIRGI
4	PAGE LINE CHANGE	REPAIR SYSTEM PRODUCTS) 6 PRODUCTS LIABILITY LITIGATION) 2:12-MD-02327
5 6	REASON:	7 THIS DOCUMENT RELATES TO THE) MDL 2327 FOLLOWING CASES IN WAVE 2) 8 OF MDL 200:)
7 8	REASON:) JOSEPH R. GOODWIN 9 Tamara Carter, et al. v.) Ethicon, Inc., et al.) U.S. DISTRICT JUDGE 10 Civil Action No. 2:12-cv-01661)
9 10	REASON:	11 Sandra Childress, et al. v.) Ethicon, Inc., et al.)
11 12	REASON:	12 Civil Action No. 2:12-cv-01564)) 13 Marion Chrysler v.)
13 14	REASON:	Ethicon, Inc., et al.) 14 Civil Action No. 2:12-cv-02060)
15 16	REASON:	15 Melissa Sanders, et al. v.) Ethicon, Inc., et al.) 16 Civil Action No. 2:12-cv-01562)
17 18	REASON:	17 Ana Sierra, et al. v.) Ethicon, Inc., et al.) 18 Civil Action No. 2:12-cv-01819)
19 20	REASON:	19 Toni Hernandez v.) Ethicon, Inc., et al.)
21 22	REASON:	20 Civil Action No. 2:12-cv-02073)
23	REASON:	22 REPORTER'S CERTIFICATE 23 ORAL DEPOSITION OF PAUL J. MICHAELS, M.D. 24 June 18, 2016

33 (Pages 126 to 129)

	Page 130		Page 132
1	_	1	-
2	I, Rebecca J. Callow, Registered Merit	2	
3	Reporter and Notary Public in and for the State of	3	SUBSCRIBED AND SWORN TO under my hand and
4	Texas, hereby certify to the following:	4	seal of office on this the day of
5	That the witness, PAUL J. MICHAELS, M.D.,	5	sear of office off this the day of
6	was duly sworn by the officer and that the	6	
7	transcript of the oral deposition is a true record		
8	of the testimony given by the witness;	7	
9	That the original deposition was delivered	8	Rebecca J. Callow, RMR, CRR, RPR
10	to	9	Notary Public, Travis County, Texas
11	That a copy of this certificate was served	10	My Commission No. 12955701-3
12	on all parties and/or the witness shown herein on	11	Expires: 09/12/2017
13	·	12	
14	That pursuant to information given to the	13	
15	deposition officer at the time said testimony was	14	
16	taken, the following the amount of time used by	15	
17	each party at the time of the deposition:	16	
18	David B. Thomas (2h36m)	17	
19	Attorney for Johnson & Johnson and	18	
20	Ethicon, Inc. Bryan F. Aylstock (0h0m)	19	
20	Attorney for Plaintiffs	20	
21	Autoritey for Frankfirs	21	
22		22	
23		23	
24		24	
	Page 131		
1	I further certify that pursuant to FRCP		
2	Rule $30(f)(1)$ that the signature of the deponent:		
3	[] was requested by the deponent or a		
4	party before the completion of the deposition and is		
5	to be returned within 30 days from date of receipt		
6	of the transcript. If returned, the attached		
7	Changes and Signature Page contains any changes and		
8	the reasons therefor;		
9	[] was not requested by the deponent or		
10	a party before the completion of the deposition.		
11			
12	I further certify that I am neither		
13	counsel for, related to, nor employed by any of the		
14	parties or attorneys to the action in which this		
15	proceeding was taken. Further, I am not a relative		
16	or employee of any attorney of record in this cause,		
17	nor am I financially or otherwise interested in the		
18	outcome of the action.		
19	outcome of the action.		
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23			
24			
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